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PIPERACEAE

PEPEROMIA

Peperomia alata

Peperomia angustata

Peperomia blanda

Peperomia delascioi

Peperomia emarginella

Peperomia galioides

Peperomia glabella

Peperomia gracieana

Peperomia haematolepis

Peperomia hernandiifolia

Peperomia lancifolia

Peperomia macrostachya

Peperomia magnoliifolia

Peperomia maguirei

Peperomia obtusifolia

Peperomia ouabianae

Peperomia pellucida

Peperomia pernambucensi:

Peperomia popayanensis

Peperomia purpurinervis

Peperomia quadrangularis

Peperomia quadrifolia

Peperomia reptans

Peperomia rhombea

Peperomia rotundifolia

Peperomia serpens

Peperomia tenella

Peperomia tetraphylla

Peperomia transparens

Peperomia urocarpa

PIPER

Piper adenandrum

Piper aduncum

Piper aequale

Piper alatabaccum

Piper amalago

Piper angustifolium

Piper anonifolium

Piper arboreum

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Piper aulacospermum

Piper avellanum

Piper bartlingianum

Piper bolivaranum

Piper brasiliense

Piper brownsbergense

Piper cernuum

Piper ciliomarginatum

Piper consanguineum

Piper coruscans

Piper crassinervium

Piper cyrtopodum

Piper demeraranum

Piper dilatatum

Piper divaricatum

Piper duckei

Piper dumosum

Piper eucalyptifolium

Piper fanshawei

Piper flexuosum

Piper fuligineum

Piper glabrescens

Piper guianense

Piper hirtilimbum

Piper hispidum

Piper hostmannianum

Piper humistratum

Piper hymenophyllum

Piper inaequale

Piper insipiens

Piper marginatum

Piper nigrispicum

Piper nigrum

Piper obliquum

Piper paramaribense

Piper peltatum

Piper perstipulare

Piper phytolaccifolium

Piper piscatorum

Piper poiteanum

Piper pulleanum

Piper remotinervium

Piper reticulatum

Piper rudgeanum

Piper rupununianum

Piper salicifolium

Piper trichoneuron

Piper tuberculatum

Piper wachenheimii

/fruits

Fruits small drupes or nuts.

Fruits minute nuts or drupes ("berries"), (sub)basely or laterally attached, sessile or somewhat stipitate when mature, occa

Fruits laterally attached, globose-ovoid, reddish brown,

Fruits basely attached, ovoid to globose, beaked, blackish, often verruculose,

Fruits subbasely attached, globose to ovoid, more or less verruculose, brown,

Fruits stipitate pale brown, smooth, oblong-ellipsoid, |, crowned with a persistent, conic style,

Fruits basely attached (according to Stevermark, on a short stipe), ellipsoid,

Fruits subbasely attached, globose, brown,

Fruits laterally attached, globose, reddish brown,

Young fruits flat at apex, green, mature fruits not yet collected.

Fruits ellipsoid or ovoid narrowing into slender beak, with curved tip,

Fruits basely attached, ellipsoid, reddish brown,

Fruits basely attached, narrowly cylindrical, brown,

Fruits basely attached, cylindrical, verruculose, brown,

Fruits basely attached, subglobose, verruculose, reddish brown or blackish, gradually tapering into beak, which is slightly

Fruits not sunken, subbasely attached, globose, green,

Fruits basely attached, ellipsoid, verruculose, reddish brown or blackish,

Fruits sessile, ovoid, brown, somewhat verruculose,

Fruits somewhat stipitate, globose, brown (young, green ones may be finely longitudinally ridged),

Fruits basely attached, cylindrical, slightly verrucose,

Fruits basely attached, ellipsoid,

Fruits basely attached, ovoid to globose, smooth,

Fruits somewhat sunken when young, slightly stipitate when ripe, ovoid, smooth and shiny (in vivo) brown, upper half ofte

Fruits basely attached, ovoid or subglobose, brown,

Fruits basely attached, subglobose to ovoid, with more or less hooked beak and subapical stigma.

Fruits ellipsoid or ovoid, |, slightly stipitate at maturity,

Fruits (sub)basely attached, globose to ovoid, brown, reticulately verruculose,

Fruits basely attached, ellipsoid, brown,

Fruits slightly stipitate at maturity, ellipsoid to obpyriform, with short beak and apical stigma.

Fruits basely attached in depressions of rachis, narrowly ovoid to ellipsoid-subcylindrical,

Fruits basely attached, globose to ovoid, brown, verruculose,

Fruits brown, ellipsoid with distinct beak,

Fruits drupes, embedded in rachis to exserted, separate from each other or in compact rows, glabrous or with indument, ç

Fruits separate at maturity, depressed globose, |, verruculose;

fruits obovoid, trigonous or somewhat tetragonous, |, glabrous or glabrescent, glandular,

fruits oblongoid to trigonous, |, brownish green, glabrous,

Fruits separate, obovoid with 4 prominent, deltoid or lobed projections at top, glabrous or papillose,

Fruits ovoid, conical to apex, |, glabrous or papillose,

fruits depressed globose or obovoid, |, glabrous,

fruits depressed globose, glabrous,

Fruits dark green, laterally compressed, oblongoid or obovoid, I, glabrous or slightly papillose,

Fruits oblongoid, glabrous, may be somewhat papillose, |, becoming stylose or mammiform at apex,

Fruits 4-sulcate, globose, |, truncate at apex, glabrous,

Fruits trigonous or depressed globose, |, glabrous and papillose,

Fruits ovoid to tetragonous, separate, somewhat ridged or winged (at least when dried), glabrous may be somewhat papil fruits trigonous, |, glabrous, green,

fruits globose, depressed at apex, densely crisp-pubescent,

fruits depressed-globose to obovoid, glabrous or papillate at apex, substylose,

Fruits obovoid, |, puberulent at apex,

fruits trigonous, |, glabrous,

fruits depressed globose, |, papillose, green, becoming exserted,

fruits obovoid or somewhat angular, depressed at apex, |, glabrous, green,

Fruits rounded, glabrous, with persistent style,

Fruits ovoid, |, glandular, glabrous,

fruits globose, I, puberulent at apex,

Fruits trigonous, glabrous, or with some hairs at top,

fruits obovoid, |, glabrous, becoming exserted,

Fruits obpyramidate-trigonous,

Fruits obovoid to trigonous, glabrous, depressed at apex when dried,

Fruits depressed globose, glabrous,

Fruits obovoid, puberulent at depressed apex,

Fruits depressed globose or ovoid, glabrous,

fruits globose to trigonous, |, glabrous,

fruits depressed globose or subtetragonous, |, glabrous, glandular,

Fruits without style.

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fruits oblongoid to rounded-trigonous, hirsute,

fruits oblongoid or trigonous, glabrous to puberulent at apex,

fruits oblongoid, sunken, glabrous,

Fruits obovoid to depressed globose, glabrous,

fruits obovoid or slightly flattened, I, somewhat separate, glabrous or minutely papillate,

fruits trigonous, glabrous, yellowish to green,

Fruits oblongoid, glabrous,

fruits trigonous or subtetragonous with narrow "collar", glabrous, green,

Fruits globose, J, glabrous, red or black,

Fruits obovoid or oblongoid, sometimes flattened at apex, |, minutely pubescent or glabrous or with a few basal hairs,

fruits globose or obovoid, |, glabrous, green,

Fruits trigonous, glabrous.

fruits trigonous or ovoid, glabrous, verruculose,

fruits globose, I, glabrous, with persistent style,

fruits separate at maturity, not sulcate, globose, |, papillose at apex, glabrescent,

fruits depressed globose to trigonous, I, glabrous,

fruits obovoid to trigonous, papillose or hispidulous,

Fruits trigonous, somewhat exserted when mature, hirsute,

Fruits greenish white, obovoid or oblongoid, I, puberulous, with glabrous disc at apex, separate at maturity,

fruits ovoid, |, glabrous, with persistent short style,

Fruits trigonous to obpyramidal, glabrous, glandular, green,

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Fruits oblongoid, glandular, hirsute,

Fruits laterally compressed, rounded, glabrous,

Fruits depressed globose or obovoid, I, pubescent or hirtellous, separate from each other,

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/fruits/apex	/fruits/apex/shape
apex obliquely scutellate or truncate, with or without a slender beak, apex oblique with subapical stigma.	0 4675 4675
apex obliquely scutellate, apex oblique with subapical stigma.	4675 4675
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apex oblique with subapical stigma.	0 4675
apex oblique with subapical stigma.	4675
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apex with slender beak and stigma at base of beak.	0
apex with short beak and subapical stigma. apex obliquely scutellate with subapical stigma.	0 4675
apex with short, thick style and apical stigma.	0
apex abruptly contracted into slender beak, which is curved or curled at tip,	0
apex oblique with subapical stigma.	4675 0
apex truncate with central stigma.	7258
apex with slender beak and stigma at base of beak.	0
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apex attenuate or somewhat stylose,	862 0
apex oblique with subapical stigma.	0 4675
apex with slender beak and subapical stigma.	0
apex with short beak and subapical stigma.	0
apex with slender beak and terminal stigma.	0
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apex depressed, glandular, pubescent,	0
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-	1-1.1 x 0.5 mm	1-1.1	1
-	ca. 1 mm long with apical stigma		1
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-	2.5-3 mm in diam.	-	
-	0.7-0.8 mm in diam.	-	
-	0.7-1 mm in diam.	-	
-	-	-	
-	ca. 1 mm in diam. , 1.5-2 mm long	1.5-2	
-	ca. 2.5 mm wide (when dried)	-	
-	-	-	
-	0.8-1 mm in diam. , 2 mm long		2
-	2 mm in diam. , to 4 mm long		4
-	3-4.5 mm in diam.	-	
-	to 2 mm in diam.	-	
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-	to 1 mm wide	-	
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-	to 8 mm long , ca. 2-2.5 mm wide		8
-	0.4 mm wide	-	
-	to 3 mm in diam.	-	
-	0.8-1 mm wide	-	

ca. 2 mm wide 2-2.5 mm wide 1-2 mm thick pubescent 0.8-1 mm wide 1.2 mm in diam. 0.5-1 mm long 0.5-1 ca. 2 mm wide 5-6 mm long 5-6 1-2 mm in diam. 3 mm in diam. 1-1.5 mm in diam. 1.5 mm in diam. 1 mm thick ca. 2 mm wide 1.5 x 1.2-1.5 mm 1.5 2 mm in diam.

ca. 1 mm thick

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/fruits/dimensions (merged)/texture /fruits/dimensions (merged)/texture 0 -

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/fruits/stigma	/fruits/stigma	
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stigma apical, central or at base of beak.	-	
	-	
stigma apical.	-	
	-	
stigma apical, mammiform.	-	
-	-	
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- ctiams at base of book	-	
stigma at base of beak.	-	
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	-	
stigma at base of beak.		
-	_	
stigma at base of beak.	_	
-	_	
stigma apical, a short style may be developed.	_	
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stigma apical.	_	
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stigma apical.	_	
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stigma apical.	-	
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stigma at base of beak.	-	
stigmas persistent.	-	
stigmas 3, sessile or fruits somewhat stylose.	3	;
stigmas 3, sessile.	3	
stigmas 3, sessile.	3	
stigmas 4, sessile.	4	ŀ
stigmas 3-4, sessile.	-	
stigmas 3, sessile.	3	
stigmas 3, sessile.	3	,
stigmas 3-4, sessile.	-	
stigmas obsolete.	-	
stigmas 4, globose, sessile;	4	
stigmas 3, sessile.	3	
stigmas 4, sessile.	4	
stigmas 3, sessile.	3	
stigmas 3, recurved, on long, pilose style.	3	
stigmas 3.	3	
stigmas 3, sessile,	3	
stigmas 3, sessile.		
stigmas 3, recurved on a very short style.	3	
stigmas 3, sessile.	3	,

stigmas 3, recurved.	3
stigmas 3, may be on a short style or fruits apiculate.	3
stigmas 3, sessile.	3
stigmas 3, sessile.	3
stigmas 3, sessile.	3
stigmas 3, linear, sessile.	3
stigmas 3, erect.	3
stigmas 3, sessile.	3
stigmas sessile.	-
stigmas sessile.	-
stigmas 3, sessile.	3
stigmas 3, sessile.	3
stigmas 3?, sessile.	3
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stigmas 3, sessile.	3
stigmas 3, sessile.	3
stigmas 4, sessile.	4
stigmas 3 or 2, recurved,	3
stigmas 3-4, lanceolate, sessile.	-
stigmas 3, short, sessile.	3
stigmas 3, sessile.	3
stigmas 3, sessile.	3
stigmas 2-3, sessile.	-
stigmas 3, often quite long, sessile, sometimes on a short style.	3
stigmas 3, linear, erect, may give impression of a style, obsolete on fruit.	3
-	-
stigmas 3, recurved, sessile.	3
stigmas 3, on long style.	3
stigmas 4, sessile.	4
stigmas 3, sessile.	3
stigmas 3.	3
stigmas sessile.	-
stigmas 3, sessile.	3
stigmas 3-4 recurved on short, persistent style.	-
stigmas 3, minute, sessile.	3
-	-
stigmas 3, obtuse, sessile.	3
stigmas 3-4, sessile.	-
stigmas 3, sessile.	3
-	

/fruits/stigma/minimum	/fruits/stigma/maximum	/fruits/stigma/shape	/fruits/stigma/shape
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obtuse	0	0 -
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/habit

Herbs, shrubs or treelets, sometimes scandent, rarely lianas.

Small epiphytic, epilithic, or terrestrial, succulent herbs, creeping, prostrate, hanging, ascending or erect.

Epiphytic, epilithic or terrestrial, glabrous herb.

Terrestrial, epiphytic or epilithic herb, erect, creeping or ascending, rooting at nodes.

Terrestrial, epiphytic or epilithic herb, erect or ascending from rooting base.

Terrestrial herb, non-creeping, suberect or ascending I, not rooting at nodes.

Epiphytic or epilithic, or epiphyllous herb, creeping and rooting at nodes, glabrous or sparsely villous.

Terrestrial, epilithic or epiphytic, cespitose herb.

Epiphytic, stoloniferous herb, strongly glandular dotted, erect, hanging, prostrate or ascending.

Epiphytic, terrestrial or epilithic herb, creeping and rooting at nodes.

Epiphytic, glabrous herb.

Epiphytic, terrestrial or epilithic herb, creeping.

Terrestrial, epilithic or epiphytic herb, erect or ascending and rooting at decumbent base.

Epiphytic herb, often growing on ants' nests, creeping or hanging and rooting at nodes.

Epiphytic, epilithic or terrestrial herb.

Epiphytic or epilithic herb, erect or ascending from prostrate, rooting base.

Epiphytic, epilithic or terrestrial herb.

Epiphytic or epilithic herb, creeping and rooting at nodes.

Terrestrial herb, delicate, erect, glabrous, annual.

Terrestrial or epiphytic, erect herb, glabrous except for pubescent peduncle.

Terrestrial, ascending, almost glabrous herb, rooting at nodes.

Epiphytic, terrestrial or epilithic herb, creeping to ascending.

Epiphytic or epilithic herb, creeping or hanging, sometimes mat-forming.

Epiphytic, trailing, glabrous herb.

Epiphytic, terrestrial or epilithic herb, creeping.

Epiphytic, stoloniferous herb.

Epiphytic or epilithic herb, prostrate with ascending stem tips rooting at nodes.

Epiphytic or epilithic herb, creeping or twining and rooting at nodes.

Terrestrial, epilithic or epiphytic, not branched, tiny herb, decumbent and rooting at base,

Epiphytic or rarely epilithic herb, cespitose or rooting at nodes and ascending.

Epilithic, erect or ascending, glabrous herb, |, rhizome sometimes tuberous.

Epiphytic or epilithic herb.

Herbs, subshrubs, shrubs or treelets, sometimes with scrambling branches, rarely climbers or lianas.

Shrub or treelet, |, pubescent or villous, hairs

Shrub or treelet,

Shrub or treelet, |, glabrous.

Shrub or treelet, |, glabrous.

Shrub,

Shrub or subshrub

Shrub, occasionally a tree, |, nodose, glabrous.

Shrub or treelet, I, sometimes with long, arching branches, often strongly branching.

Shrub or treelet, |, glabrous, except for ciliate leaf margin.

Small shrub, |, sparingly branched.

Shrub or subshrub |, densely short crisp-pubescent, hairs

Shrub, subshrub or treelet, |, somewhat nodose, glabrous.

Subshrub

Small shrub.

Small shrub or subshrub,

Shrub or treelet,

Shrub

Herbaceous small shrub, |, sometimes creeping, retrorsely crisp-pubescent.

Shrub or subshrub

Shrub or treelet,

Subshrub or herb,

Subshrub or shrub,

Shrub or subshrub

Shrub, subshrub or treelet, sometimes scandent,

Shrub

Shrub or treelet

Shrub or treelet |, glabrous except for subnodal lines of hairs on stem.

Small shrub

Shrub to 2? m tall.

Stout herb or slender shrub,

Shrub

Small shrub, often scrambling, rooting at lower nodes.

Shrub

Shrub or subshrub, occasionally with scrambling branches,

Shrub, subshrub or treelet

Creeping herb or subshrub to

Scandent or creeping shrub, climbing branches rooting at nodes.

Shrub or treelet |, almost glabrous.

Shrub, subshrub or treelet, may be somewhat scandent,

Subshrub or treelet.

Shrub

Shrub sometimes with scrambling branches or liana.

Shrub or treelet,

Small shrub, sometimes trailing,

Large herb

Shrub

Shrub |, glabrous.

Subshrub,

Vine or climbing shrub

Shrub or treelet,

Shrub or treelet.

Treelet or shrub, sometimes scandent, |, tall.

Shrub.

Shrub or tree,

Shrub.

Shrub, sometimes treelet,

Shrub or treelet |, stem minutely hirtellous, usually somewhat tuberculate.

Small shrub or even small treelet, |, nodose in lower part.

/hahit	/hahit/minimum	/hahit/maximum	/hahit/texture	/habit/texture /habit/texture	/hahit/hairs
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1 tuberculate

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/habit/hairs /habit/hairs		/habit/growth form	/habit/growth form
0 -		169	100
0 -		22	11
1000 glabrous		0	0
0 -		22	11
0 -		43	1
0 -		22	11
101000 glabrous,villou	S	22	
0 -		0	0
0 -		43	1
0 -		22	10
1000 glabrous		0	0
0 -		22	10
0 -		43	1
0 -		22	10
0 -		0	0
0 -		43	1
0 -		0	0
0 -		22	10
1000 glabrous		43	1
1001 glabrous, pube	scent	43	1
1000 glabrous		0	0
0 -		22	10
0 -		22	10
1000 glabrous		0	0
0 -		22	10
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0 -		0	0
0 -		22	10
0 -		0	0
0 -		0	0
1000 glabrous		43	1
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1010001 hairs,pubescer	nt,pubescent or villous	0	0
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1000 glabrous		0	0
1000 glabrous		0	0
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1000 glabrous		0	0
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1100 ciliate,glabrous	6	0	0
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10001 hairs,pubescer	nt	0	0
1000 glabrous		0	0
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1000 glabrous	0	0
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/habit/growth form	/habit/height	/habit/height	/habit/height/minimum	/habit/height/maximu	ım
scandent	-	-	-	-	
creeping,erect	-	-	-	_	
creeping,erect	_	_	_	_	
erect	-	_	_	-	
creeping,erect	up to 9 cm	_	_		9
creeping	-	-	-	-	
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erect	-	-	-	-	
creeping	-	-	-	-	
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creeping	-	-	-	-	
erect	-	-	-	-	
creeping	-	-	-	-	
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creeping erect	-	-	-	-	
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creeping	-	_	_	-	
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creeping	-	-	-	-	
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creeping	-	-	-	-	
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erect	-	-	-	-	
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-	1.5 m tall	1.	0 -	- 2	7
-	3-7 m tall 1-4 m tall	-		3 1	7 4
-	2-3 m tall	-		2	3
_	2-4 m tall	_		2	4
-	to 1.5 m tall	_	_	_	1.5
-	0.5-3 m tall	_	0	.5	3
-	2-7 m tall	-	_	2	7
-	to 2-4 m tall	-		2 2-4	
-	1-2.5 m tall	-		1	2.5
-	to 2 m tall	-	-		2
-	1-4 m tall	-		1	4
-	to 0.1-1.5 m tall	-	0	.1 0.1-1.5	
-	to 1 m tall	-	-		1
-	0.15-1.5 m tall	-	0.1		1.5
-	2-6 m tall	-		2	6
-	to 1-3 m tall	-	_	11-3	o =
creeping	0.1-0.5 m tall	-	0	1	0.5
-	to 1-3 m tall	-		1 1-3	

-	2-5 m tall	-		2	5
-	1-3 m tall	-		1	3
-	1-2.5 m tall	-		1	2.5
-	to 4 m tall	-	-		4
scandent	to 3 m tall	-	-		3
-	to 1.5 m tall	-	-		1.5
-	to 3 m tall	-	-		3
-	to 2 m tall	-	-		2
-	to 2 m tall	-	-		2
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-	ca. 1 m tall		1 -	-	
-	to 1.5-2 m tall	-		1.5 1.5-2	
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-	to 0.5 m tall	-	-		0.5
-	2-3 m tall	-		2	3
-	to 7 m tall	-	-		7
-	0.35 m tall		0.35 -	-	
creeping	-	-	-	-	
-	to 3 m tall	-	-		3
scandent	to 2 m tall	-	-		2
-	to 3 m tall	-	-		3
-	to 2.5 m tall	-	-		2.5
-	-	-	-	-	
-	1.5-8 m tall	-		1.5	8
-	to 1 m tall	-	-		1
-	to 3 m tall	-	-		3
-	to 1.5-4 m tall	-		1.5 1.5-4	
-	to 1.6 m tall	-	-		1.6
-	to 1 m tall	-	-		1
-	to 8 m tall	-	-		8
-	to 2.5 m tall	-	-		2.5
-	to 1-3.5 m tall	-		1 1-3.5	
scandent	to 10 m	-	-		10
-	-	-	-	-	
-	1-2 m tall	-		1	2
-	-	-	-	-	
-	to 2 m tall	-	-		2
-	to 3 m tall	-	-		3
-	to 1.5 m tall	-	-		1.5

/inflorescences Inflorescences |, axillary, or leaf-opposed spikes with minute flowers, solitary or few together, or occasionally spikes arrange Inflorescences |, solitary or few together, occasionally paniculate; Inflorescence |, single or few together, Inflorescence single, Inflorescence |, single or few together; Inflorescence |, solitary; Inflorescence |, single, Inflorescence |, often in groups of 2-5; Inflorescence |, single, or several in upper leaf axils, Inflorescence single, Inflorescence |, single, Inflorescence |, solitary; Inflorescence |, solitary, bifurcate or once-branched; Inflorescence |, few together; Inflorescence |, solitary or usually 2(-few) together; Inflorescence solitary, Inflorescence |, solitary or few together; Inflorescence |, solitary; Inflorescence |, solitary; Inflorescence |, paniculate; Inflorescence |, solitary; Inflorescence |, solitary; Inflorescence |, solitary or two together, Inflorescence |, solitary, Inflorescence single, Inflorescence |, solitary, simple; Inflorescence |, solitary; Inflorescence |, solitary; Inflorescence |, solitary; Inflorescence |, solitary; Inflorescence |, solitary or few together; Inflorescence solitary, simple, Inflorescences simple, pedunculate spikes, solitary, leaf-opposed (in P. peltatum axillary on reduced, leafless branches, un Inflorescence |, white, becoming green;

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- "Inforcedence , unibeliate, , sympodial branches with very short internodes, without leaves
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/inflorescences/floral bracts

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floral bracts peltate, mainly rounded, glabrous, often glandular.

floral bracts rounded, glabrous, slightly glandular.

floral bracts rounded to oblong, slightly glandular.

floral bracts rounded, glandular.

floral bracts rounded, umbonate with pale margin,

floral bracts sub-orbicular to oblong.

floral bracts rounded, glandular.

floral bracts rounded, glabrous and black-glandular.

floral bracts rounded, glabrous.

floral bracts rounded, glandular.

floral bracts rounded, glabrous, glandular.

floral bracts rounded, glabrous, glandular.

floral bracts rounded, dentate or fimbriate, glandular.

floral bracts rounded, |, glabrous, glandular.

floral bracts rounded, with scariose margin, glabrous, glandular.

floral bracts rounded, J, glabrous, glandular.

floral bracts rounded, glabrous, glandular.

floral bracts rounded, glabrous, minutely glandular.

floral bracts rounded, glabrous, glandular.

floral bracts, rounded, glabrous.

floral bracts rounded, glabrous, glandular.

floral bracts rounded or oblong, glabrous, glandular;

floral bracts rounded, glabrous and sparsely glandular.

floral bracts rounded, glandular.

floral bracts rounded, glabrous,

floral bracts rounded, glabrous, glandular.

floral bracts rounded, glabrous, glandular.

floral bracts rounded to narrowly oblong, glabrous, glandular.

floral bracts rounded, glabrous, glandular.

floral bracts rounded, glabrous, glandular.

floral bracts rounded, with scariose margin.

floral bracts peltate, rounded, triangular or cucullate, subtending reduced flowers.

floral bracts densely marginally fringed;

floral bracts densely marginally fringed;

floral bracts marginally fringed.

floral bracts small, rounded peltate, glabrous, caducous;

floral bracts cucullate, glabrous;

floral bracts cucullate, glabrous.

floral bracts cucullate, not fringed, often greyish when dried;

floral bracts |, densely marginally fringed, conspicuously arranged in whorls;

floral bracts densely marginally fringed.

floral bracts saccate or galeate, glabrous, densely fimbriate;

floral bracts densely marginally fringed.

floral bracts cucullate, pilose on inner side.

floral bracts trigonous, densely marginally fringed.

floral bracts narrowly sublunulate, sparsely puberulous.

floral bracts triangular-subpeltate, marginally fringed.

floral bracts marginally fringed;

floral bracts densely marginally fringed.

floral bracts cucullate, glabrous;

floral bracts rounded to trigonous, densely marginally fringed.

floral bracts marginally fringed.

floral bracts cucullate and pilose on inner side and at base.

floral bracts cucullate, glabrous or dorsally puberulent.

floral bracts |, densely marginally fringed;

floral bracts marginally fringed.

floral bracts densely marginally fringed.

floral bracts densely marginally fringed.

floral bracts cucullate, inflexed, glabrous.

floral bracts dorsally fringed, crowded.

floral bracts densely marginally fringed.

floral bracts ciliate and hirtellous.

floral bracts glabrous to papillate.

floral bracts rounded to cucullate, sparsely fringed, with central dark gland;

floral bracts densely marginally fringed;

floral bracts densely marginally fringed,

floral bracts densely crowded, spirally arranged, densely marginally fringed.

floral bracts glabrous, slightly cucullate.

floral bracts pubescent at base, densely marginally fringed;

floral bracts densely marginally fringed.

floral bracts triangular, densely marginally fringed.

floral bracts densely marginally fringed.

floral bracts densely marginally fringed.

floral bracts glabrous.

floral bracts triangular-rounded to cucullate, glabrous.

floral bracts cucullate and pilose on inner side and at base,

floral bracts marginally fringed.

floral bracts subtriangular, densely marginally fringed.

floral bracts densely marginally fringed.

floral bracts cucullate, glabrous.

floral bracts cucullate-inflexed, densely marginally fringed.

floral bracts marginally fringed;

floral bracts densely marginally fringed.

floral bracts glabrous or sparsely puberulous.

floral bracts pilose on inner side and at base.

floral bracts densely marginally fringed.

floral bracts densely marginally fringed;

floral bracts densely marginally fringed.

floral bracts |, marginally fringed, conspicuously arranged in whorls.

floral bracts densely marginally fringed.

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pendent	106
recurved	127
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pendent, may be erect or horizontal at first	43
erect	43
pendent	106
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erect or pendent	53
pendent	106
pendent under leaves	106
pendent	106
erect	43
pendent	106
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pendent	106
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usually pendent	106
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erect or slightly curved	43
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horizontally oriented? later recurved	127
pendent	106
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erect and recurved	43
pendent	106
pendent	106
pendent	106
erect	43
presumably pendent	106
erect	43
erect or horizontally oriented	43
erect	43
pendent	106
erect or pendent	53
-	0
erect	43
erect	43
erect	43

/inflorescences/growth form/growth form /inflorescences/growth form/growth form 0 -0 -100 erect 100 erect 0 -100 erect 100 erect 0 -1000 erect to pendent 100 erect 0 -0 -1 pendent 100 erect 100 erect 0 -0 -0 -0 -0 -0 -100 erect 100 erect 0 -0 -0 -0 -100 erect 0 -0 -0 -0 -1 pendent 10000 recurved 100 erect 100 erect 100 erect 100 erect 100 erect 100 erect 101 erect, pendent 100 erect 1 pendent 100 erect 10 erect or pendent 1 pendent 1 pendent 1 pendent 100 erect 1 pendent

100 erect

0 -1 pendent 100 erect 100 erect 1 pendent 100 erect 1 pendent 100 erect 100 erect 100 erect 100 erect 100 erect 100 erect 1 pendent 100 erect 100 erect 100 erect 10000 recurved 1 pendent 100 erect 10100 erect, recurved 1 pendent 1 pendent 1 pendent 100 erect 100 erect 100 erect 100 erect 100 erect 1 pendent 100 erect 100 erect 100 erect 1 pendent 10 erect or pendent 0 -

> 100 erect 100 erect 100 erect

```
/inflorescences/peduncle
peduncle not slender, |, green;
peduncle slender, |, glabrous or minutely pubescent, red;
peduncle |, pubescent or crisp-pubescent;
peduncle |, minutely hirtellous, without bracts;
peduncle slender, |, pinkish;
peduncle not slender, |, minutely pubescent to glabrous, winged, green;
peduncle |, glabrous, black-glandular;
peduncle slender, |, glabrous, green;
peduncle not slender, |, glabrous or minutely puberulent;
peduncle not slender, |, minutely pubescent, green;
common peduncle green, not slender,
peduncle not slender, I, glabrous or minutely pubescent or papillose, red or brown;
peduncle slender (when dried) or not slender, I, glabrous, green or pinkish;
peduncle |, villous, green or reddish brown;
both the common peduncle and those of individual spikes bracteate, green or pinkish, slender (when dried) or not slender
peduncle slender, I, glabrous or minutely pubescent, green;
peduncle slender, |, green;
peduncle |, densely velvety pubescent, green;
peduncle slender, |, with 2-3 caducous bracts, green;
peduncle not slender, |, glabrous or minutely pubescent;
peduncle not slender, I, pubescent, 2-bracteate, red, brownish or green;
peduncle not slender, J, green;
peduncle not slender, often bracteate, |, longer than spike, pubescent, sometimes red;
peduncle |, minutely pubescent;
peduncle not nodose, without bract, I, pubescent or glabrous;
peduncle nodose or with 1-2 caducous bracts, not slender, |, crisp-pubescent, not winged, green;
peduncle not slender, J., glabrous, green;
peduncle |, minutely pubescent, green;
peduncle slender, |, red;
peduncle |, crisp-pubescent, 1-2 bracteate;
peduncle |, sometimes reddish tinged, crisp-pubescent or villous;
peduncle |, sparsely pubescent;
peduncle slender,
peduncle
peduncle |, glabrous;
peduncle |, retrorsely pubescent;
peduncle
peduncle moderately stout,
peduncle glandular-dotted, |, red to brown;
peduncle |, minutely pubescent;
peduncle slender, |, pubescent;
peduncle |, glabrous;
peduncle |, glabrous;
peduncle |, densely pubescent;
peduncle |, pilose, glabrescent;
peduncle |, densely pubescent;
peduncle |, glabrous;
```

peduncle |, glabrescent; peduncle |, glabrous;

```
peduncle stout, |, pubescent;
peduncle |, pilose, often red;
peduncle |, pubescent, green;
peduncle |, puberulent to glabrous;
peduncle |, glabrous;
peduncle |, crisp-pubescent;
peduncle |, slender, glabrous, green to reddish;
peduncle |, glabrescent;
peduncle filiform,
peduncle |, crisp-pubescent;
peduncle
peduncle |, glabrous;
peduncle filiform, |, sparsely pubescent;
peduncle |, long-hirsute;
peduncle |, pubescent;
peduncle |, crisp-pubescent;
peduncle |, villous;
peduncle |, pubescent or glabrescent;
peduncle slender, |, glabrous;
peduncle slender,
peduncle |, glabrous;
peduncle slender, |, glabrous, often reddish or violaceous;
peduncle
peduncle |, pubescent to glabrescent;
peduncle |, glabrous or hirsute;
common peduncle |, peduncles slender,
peduncle |, glabrous;
peduncle
peduncle |, glabrous;
peduncle |, minutely pubescent or glabrous;
peduncle |, brown crisp-pubescent;
peduncle |, pubescent;
peduncle |, glabrous or minutely puberulous;
peduncle rather stout, |, glabrous;
peduncle
peduncle
peduncle |, pubescent;
peduncle
peduncle |, crisp-pubescent;
```

/inflorescences/peduncle	/inflorescences/peduncle/minimum	/inflorescences/peduncle/maximum
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/inflorescences/peduncle/shape	
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-	/inflorescences/peduncle/hairs /inflorescences/peduncle/hairs
0	0 -
0	0 -
0	0 -
71	10000000001 glabrous, pubescent
386	10000000000 pubescent
176	100000000000 hirtellous
0	0 -
391	10 pubescent to glabrous
71	1 glabrous
71	1 glabrous
71	1000001 glabrous, puberulent
386	10000000000 pubescent
0	0 -
71	10000000001 glabrous,pubescent
71	1 glabrous
596	10000 villous
386	10000000000000000000000000000000000000
71	
0	10000000001 glabrous,pubescent 0 -
386	10000000000 pubescent
0	0-
71	10000000001 glabrous, pubescent
386	10000000000 pubescent
0	0 -
386	10000000000 pubescent
386	10000000000 pubescent
392	100000 pubescent or glabrous
386	10000000000 pubescent
71	1 glabrous
386	10000000000 pubescent
0	0 -
386	10000000000 pubescent
0	0 -
420	10000000000000 pubescent or villous
386	10000000000 pubescent
0	0 -
0	0 -
71	1 glabrous
386	10000000000 pubescent
0	0-
0	0 -
0	0 -
386	10000000000 pubescent
386	10000000000 pubescent
71	1 glabrous
71	1 glabrous
386	10000000000 pubescent
71	10000000000 pabescent 10000000100 glabrescent,pilose
386	• • • • • • • • • • • • • • • • • • • •
	100000000000 pubescent
71	1 glabrous
71	10000000000 glabrescent
71	1 glabrous

386	10000000000 pubescent
316	100 pilose
386	10000000000 pubescent
356	100000000 puberulent to glabrous
71	1 glabrous
386	10000000000 pubescent
71	1 glabrous
71	1000000000 glabrescent
0	0 -
386	10000000000 pubescent
0	0-
71	1 glabrous
386	10000000000 pubescent
141	10000000 hirsute
386	10000000000 pubescent
386	10000000000 pubescent
596	10000 villous
392	1000000000 pubescent or glabrescent
71	1 glabrous
0	0 -
71	1 glabrous
71	1 glabrous
0	0 -
391	100000000000000000000 pubescent to glabrescent
79	100000000000000 glabrous or hirsute
0	0 -
71	1 glabrous
0	0 -
71	1 glabrous
392	100000 pubescent or glabrous
386	10000000000 pubescent
386	10000000000 pubescent
71	1001 glabrous,puberulous
71	1 glabrous
0	0 -
0	0 -
386	10000000000 pubescent
0	0 -
386	10000000000 pubescent

	/inflorescences/peduncle/colour /inflorescences/peduncle/colour
0	0 -
0	0 -
782	1000000 green
1705	1 red
0	0 -
0	0 -
1563	1000 pinkish
782	1000000 green
143	10000 black
782	1000000 green
0	0 -
782	1000000 green
782	1000000 green
1715	10000000000 red or brown
826	100 green or pinkish
285	100101000000 brown, green, green or reddish
826	100 green or pinkish
782	1000000 green
0	0-
307	100001 brownish or green,red
782	1000000 green
1705	1 red
0	0 -
0	0 -
782	1000000 green
782	1000000 green
782	1000000 green
1705	1 red
0	0 -
0	0 -
1705	100000000 reddish
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
1714	10 red to brown
0	0 -
0	0 -
	0 -
0	0 -
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0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -

0	0
1705	0 - 1 rad
1705	1 red
782 0	1000000 green 0 -
	0 - 0 -
0	
0	0 -
829	10000000 green to reddish
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
1705	100000000 reddish
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
285	10000000000 brown
0	0 -
0	0 -
0	0 -
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0	0 -
0	0 -
0	0 -
0	0 -

/inflorescences/peduncle/length	/inflorescences/peduncle/length
-	-
- 0.2.1 F am long	-
0.3-1.5 cm long	-
2-3 cm long	-
0.7-3.2 cm long	-
0.3-0.5 cm long	-
to 1 cm long	-
0.2-1.2 cm long	-
0.5-1.5 cm long	-
1.5-1.7 cm long	-
3.5-5 cm long	-
1.5-5.5 cm long	-
2-6 cm long	-
to 1.5 cm long	-
1-8 cm long	-
1-2 cm long	-
1-14 cm long	-
to 1.5 cm long to 1 cm long	-
5 cm long	5
3-7 cm long	5
0.5-2.5 cm long	-
0.5-2.5 cm long 0.5-4 cm long	-
up to 1.7 cm long	-
3-6 cm long	_
0.8-3.7 cm long	_
up to 1 cm long	_
to 3 cm long	_
0.4-1.5 cm long	_
to 2 cm long	_
1-4 cm long	-
2-4 cm long	_
2-4 cm long	
0.5-1.1 cm long	
0.7-1.2 cm long	
1-1.5 cm long	
to 1.2 cm long	
0.8-1.5 cm long	_
0.2-0.4 cm long	_
0.5-1 cm long	_
0.5-1 cm long	_
1-2 cm long	_
1 cm long	1
0.5-1 cm long	-
1 cm long	1
0.5-1.1 cm long	-
0.3-0.4 (0.8 in fruit) cm long	_
1-2 cm long	-
1-3 cm long	-
0.8-1.6 cm long	_
to 0.5 cm long	_
0.5-1 cm long	-

0.5-1.5 cm long	-
0.9-1.6 cm long	-
to 1 cm long	-
0.5-1 cm long	-
0.5-0.8 cm long	-
0.4-1.5 cm long	-
1-1.2 cm long	-
ca. 0.5 cm long	0.5
1-1.5 cm long	-
0.5 cm long	0.5
0.2-0.6 cm long	-
to 1.5 cm long	-
to 3 cm long	-
0.5-1.2 cm long	-
to 1 cm long	-
1 cm long, to 1.5 cm in fruit	-
1.5-2.5 cm long	-
0.8-2 cm long	-
1.5-2.5 cm long	-
1-3.5 cm long	-
1 cm long	1
0.5-1.8 cm long	1
0.5-1.8 cm long 1-2.5 cm long	1 - -
0.5-1.8 cm long 1-2.5 cm long 2-5 cm long	1 - -
0.5-1.8 cm long 1-2.5 cm long 2-5 cm long 0.5-1 cm long	1 - - -
0.5-1.8 cm long 1-2.5 cm long 2-5 cm long 0.5-1 cm long common peduncle 2-8 cm long , peduncles 1-1.5 cm long	1 - - - -
0.5-1.8 cm long 1-2.5 cm long 2-5 cm long 0.5-1 cm long common peduncle 2-8 cm long , peduncles 1-1.5 cm long 1-2 cm long	- - -
0.5-1.8 cm long 1-2.5 cm long 2-5 cm long 0.5-1 cm long common peduncle 2-8 cm long , peduncles 1-1.5 cm long 1-2 cm long 0.4-0.7 cm long	- - - -
0.5-1.8 cm long 1-2.5 cm long 2-5 cm long 0.5-1 cm long common peduncle 2-8 cm long , peduncles 1-1.5 cm long 1-2 cm long 0.4-0.7 cm long 0.4-0.5 cm long	- - - -
0.5-1.8 cm long 1-2.5 cm long 2-5 cm long 0.5-1 cm long common peduncle 2-8 cm long , peduncles 1-1.5 cm long 1-2 cm long 0.4-0.7 cm long 0.4-0.5 cm long 1-1.5 cm long	- - - -
0.5-1.8 cm long 1-2.5 cm long 2-5 cm long 0.5-1 cm long common peduncle 2-8 cm long , peduncles 1-1.5 cm long 1-2 cm long 0.4-0.7 cm long 0.4-0.5 cm long 1-1.5 cm long 0.5-8 cm long	- - - -
0.5-1.8 cm long 1-2.5 cm long 2-5 cm long 0.5-1 cm long common peduncle 2-8 cm long , peduncles 1-1.5 cm long 1-2 cm long 0.4-0.7 cm long 0.4-0.5 cm long 1-1.5 cm long 0.5-8 cm long 1.5-2 cm long	- - - -
0.5-1.8 cm long 1-2.5 cm long 2-5 cm long 0.5-1 cm long common peduncle 2-8 cm long , peduncles 1-1.5 cm long 1-2 cm long 0.4-0.7 cm long 0.4-0.5 cm long 1-1.5 cm long 1-5-2 cm long 0.5-8 cm long 0.7-2 cm long	- - - -
0.5-1.8 cm long 1-2.5 cm long 2-5 cm long 0.5-1 cm long common peduncle 2-8 cm long , peduncles 1-1.5 cm long 1-2 cm long 0.4-0.7 cm long 0.4-0.5 cm long 1-1.5 cm long 0.5-8 cm long 0.5-2 cm long 0.7-2 cm long 0.5-0.7 cm long	- - - -
0.5-1.8 cm long 1-2.5 cm long 2-5 cm long 0.5-1 cm long common peduncle 2-8 cm long , peduncles 1-1.5 cm long 1-2 cm long 0.4-0.7 cm long 0.4-0.5 cm long 1-1.5 cm long 0.5-8 cm long 1.5-2 cm long 0.7-2 cm long 0.5-0.7 cm long	
0.5-1.8 cm long 1-2.5 cm long 2-5 cm long 0.5-1 cm long common peduncle 2-8 cm long , peduncles 1-1.5 cm long 1-2 cm long 0.4-0.7 cm long 0.4-0.5 cm long 1-1.5 cm long 0.5-8 cm long 1.5-2 cm long 0.7-2 cm long 0.7-2 cm long 0.5-0.7 cm long 1-1.5 cm long	
0.5-1.8 cm long 1-2.5 cm long 2-5 cm long 0.5-1 cm long common peduncle 2-8 cm long , peduncles 1-1.5 cm long 1-2 cm long 0.4-0.7 cm long 0.4-0.5 cm long 1-1.5 cm long 1-5-2 cm long 0.5-8 cm long 1.5-2 cm long 0.7-2 cm long 0.5-0.7 cm long 1-1.5 cm long	
0.5-1.8 cm long 1-2.5 cm long 2-5 cm long 0.5-1 cm long common peduncle 2-8 cm long , peduncles 1-1.5 cm long 1-2 cm long 0.4-0.7 cm long 0.4-0.5 cm long 1-1.5 cm long 0.5-8 cm long 1.5-2 cm long 0.7-2 cm long 0.7-2 cm long 0.5-0.7 cm long 1-1.5 cm long	

/inflorescences/peduncle/length/minimum	/inflorescences/peduncle/length/maximum
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-	1.7
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0.7	1.2
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3.0	1.2
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2.0	5 1

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	0.9	1.6
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	0.5	1
	0.5	0.8
	0.4	1.5
	1	1.2
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	1	1.5
-	-	
	0.2	0.6
-		1.5
-		3
	0.5	1.2
-		1
-		1.5
	1.5	2.5
	0.8	2
	1.5	2.5
	1	3.5
-	-	
	0.5	1.8
	1	2.5
	1 2 0.5	5
	0.5	1
	2 1	8
	1	2
	0.4	0.7
	0.4	0.5
	1 0.5	1.5
	0.5	8
	1.5	2
	0.7	2
	0.5	0.7
	1	1.5
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	0.5	2
-		0.5

Check	
/inflorescences/position /inflorescences/position	/inflorescences/position/colour
100000 terminal	0
100100 terminal, leaf-opposed or axillary spikes	0
1 terminal or axillary	0
100000 terminal	0
1 terminal or axillary	0
1000 terminal opposite the uppermost leaves	0
100000 terminal	0
1 terminal or axillary	0
100000 terminal	0
10000000 axillary	0
100000 terminal	0
1 terminal or axillary	0
100000000 terminal or in upper leaf axils	0
100000 terminal	
	0
100000 terminal	0
100000 terminal	0
100000 terminal	0
10000000 axillary	0
100000 terminal	0
10000 axillary or occasionally terminal	0
100000 terminal	0
10000000 axillary	0
100000 terminal	0
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1000010 seem to be axillary, but are reduced	1705
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Sheet1 /inflorescences/position/colour /inflorescences/position/colour 0 -

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- 0 -

/inflorescences/rachises	/inflorescences/rachises/hairs
rachis glabrous (but hairy in P. tetraphylla);	0 71
-	0
-	0
rachis glabrous.	0 71
-	0
-	0
-	0
-	0
-	0
-	0
-	0
rachis hardly ridged;	0
-	0
-	0
-	0
-	0
-	0
rachis strongly ridged (at least when dried).	0
-	0
-	0
-	0
-	0
rachis pubescent;	386
-	0
-	0
rachis glabrous;	0 71
-	0
rachis glabrous;	71
rachis brownish crisp-pubescent. rachis minutely pubescent;	386 386
-	0
rachis glabrous;	71
rachis glabrous;	71
rachis glabrous, sometimes red;	71 0
rachis glabrous;	71
rachis hirsute;	141
-	0
- -	0
rachis glabrous;	71
-	0
rachis pubescent.	386 0
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-	0
-	0
rachis glabrous;	71
-	0
-	0
-	0
-	0
	0
	0
rachis glabrous or sparsely pubescent;	71
-	0
-	0
rachis presumably puberulent;	351
-	0
-	0
-	0
-	0
rachis glabrous;	71
rachis papillose;	0
-	0
-	0
-	0
rachis pubescent;	386
rachis pubescent.	386
-	0
-	0
rachis pubescent;	386
-	0
_	0
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rachis glabrous;	71
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rachis glabrous;	71

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/inflorescences/spikes
spike |, yellow;
spike |, moderately to densely flowered;
spike |, green, densely to laxly flowered;
spike with scattered flowers,
spike |, laxly flowered;
spike |, pale yellow to green, laxly flowered;
spike |, moderately densely flowered, flowers distinctly separate;
spike laxly flowered, |, green;
spike |, reddish;
spike |, densely flowered;
spike densely flowered, erect, |, whitish or yellowish green;
spike |, yellow to green, densely flowered;
spike |, green, white or yellow, densely flowered;
spike |, green, densely flowered,
spikes |, greenish white to yellow, densely flowered;
spike |, sparsely to densely flowered;
spike
spikes |, green, densely flowered;
spike |, green;
spike erect, |, yellow or pale green or greenish white, laxly flowered;
spike I, green or yellow-green, laxly to moderately flowered;
spike |, densely flowered, green;
spike I, green or yellow, densely flowered;
spike
spike I, yellow to red, moderately to densely flowered;
spike |, pale green, densely flowered;
spike |, green, flowers distinctly separate;
spike |, cream-white;
spike loosely flowered, erect, |, white or green;
spike |, about as long as peduncle;
spike |, green to pale or dark yellow, apiculate;
spike |, white to green, apiculate;
spike |, white or green, apiculate or not;
spike |, white turning green, not apiculate;
spike |, not apiculate;
spike almost globose, |, apiculate;
spike |, white, yellow or (greyish) green, apiculate;
spike I, whitish, yellow or pale green, apiculate, densely flowered;
spike
spike |, not apiculate;
spike |, white, yellow or green, occasionally apiculate or not;
spike |, green, not apiculate;
spike|, white, not apiculate;
spike |, not apiculate?;
spike
spike |, yellow, not apiculate;
spike |, white, not apiculate;
spike erect, |, white, yellow to green, apiculate;
spike |, white, apiculate;
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spike
spike |, not apiculate;
spike I, white, yellow or green, apiculate;
spike |, white to yellow, not apiculate;
spike |, whitish, pale yellow or green, apiculate;
spike |, pink, apiculate;
spike |, white, yellowish to green, not apiculate;
spike |, apiculate;
spike |, apiculate;
spike |, apiculate;
spike |, green, not apiculate;
spike |, apiculate;
spike |, apiculate;
spike |, hardly apiculate;
spike |, white, cream or pale green, not apiculate;
spike |, white or yellow;
spike |, green or yellow or rosish, not apiculate;
spike protandrous (presenting staminate flowers first, pistillate flowers afterwards), |, green, not apiculate;
spike I, not apiculate:
spike |, white, yellowish or greyish-green, apiculate;
spike
spike |, green, yellow to reddish, apiculate;
spike |, apiculate or not;
spike |, reddish when young, apiculate;
spike |, yellow or green, apiculate;
spikes numerous, I, each subtended by a single prophyll, densely flowered;
spike |, greenish white to white, apiculate;
spike |, not apiculate;
spike |, green, apiculate;
spike I, yellow to green, apiculate;
spike |, white to yellowish, apiculate;
spike |, creamish white to green, hardly apiculate;
spike |, white or greyish, not aciculate;
spike |, not apiculate;
spike |, apiculate;
spike
spike |, often reddish or pink, apiculate;
spike
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spike |, reddish, pinkish or brownish, apiculate;

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	Sheeti	
/inflorescences/spikes/colour	/inflorescences/spikes/length	
-	<u>-</u>	
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yellow	6-14 cm long	
red	10-16 cm long	
green,red	2.5-15 cm long	
red	0.6-3 cm long	
red	to 1.5 cm long	
red,yellow	up to 15 cm long	
red	to 16 cm long	
green,red	4-6 cm long	
reddish	2-5 cm long	
	_	
red	3-5 cm long	
green,red,whitish,whitish or yellowish	4-11 cm long	
red,yellow	to 30 cm long	
green,red,white,white or yellow	to 18 cm long	
green,red	2-7 cm long	
greenish,red,white,white to yellow	to 18 cm long	
red	1.5-5.5 cm long	
-	1-6 cm long	
green,red	4-8 cm long	
green	17 cm long	
green,red,white,yellow	5-7 cm long	
green or yellow	up to 6 cm long	
green,red	1-3.5 (according to Henkel 946, to 10) cm long	
green or yellow	1-2.5 cm long	
-	2.2-6 cm long	
yellow to red	2-6 cm long	
green,red	up to 1.7 cm long	
green	1.7-4 cm long	
cream,white	up to 4 cm long	
red,white	2.5-5 cm long	
-	1.5-5 cm long	
-	-	
green,yellow	1-5 cm long	
white to green	8-15 cm long	
white or green	to 10 cm long	
green,white	5-8 cm long, to 12 cm in fruit	
-	6-7 cm long	
-	to 1 x 1.5 cm	
green,greyish,white,yellow	2.5-4 cm long	
green,red,whitish,yellow	5-10 cm long	
-	4-20 cm long	
_	0.5-1 x 0.1-0.2 cm long, in fruit 2.5-4.5 x 0.3-0.45 cm	
white, yellow	3-5.5 cm long	
green	10-12 cm long	
white	1-1.7 cm long	
-	1-1.7 cm long	
_	to 5.5 cm long	
vallow	20-60 cm long	
yellow		
white	2-8 cm long	
white, yellow	1.5-2.5 cm long	
white	8-11 cm long	

12-15 x 0.5-0.7 cm 2.5-5 cm long white, yellow 3.5-4.5 cm long white to yellow 7-8 cm long whitish, yellow 3-6 cm long pink to 16 cm long white, yellowish 5-8 cm long 0.5-3 cm long 2 cm long 4-6 cm long 3.5-7 cm long green to 6 cm long 1-1.7 cm long 1-3 cm long cream, green, white 8-14 cm long white or yellow 10-12 cm long green or yellow 2-4 cm long green 1-3.5 cm long 1.5-5 cm long green,greyish,white,yellowish,yellowish or greyish 7-13 cm long 10-13 cm long green, reddish, yellow, yellow to reddish 1-5 cm long 5-10 cm long reddish (8-)20-60 cm long yellow or green 2-4 cm long red 5-10 cm long greenish, white 7-9.5 cm long 2-4 cm long green 4-7 cm long yellow to green 7-16.5 cm long white to yellowish 5-8 cm long cream, green, white, white to green 10-20 cm long white or greyish 6-12 cm long 1 cm long 5-9 cm long ca. 4 cm long 8-9 cm long, in fruit to 11 cm long reddish or pink 2-11 cm long pinkish or brownish, reddish to 8 cm long

/inflorescences/spikes/length	/inflorescences/spikes/length/minimum
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5 Infructescence recurved;
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Infructescence erect, green;
1 Infructescence
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z - 7 Infructescence erect, green;
5 Infructescence pendent,
5 Infructescence pendent;
)-
3 Infructescence pendent, , green;
5 Infructescence , green or brownish; L Infructescence erect, green;

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15 -
  5 -
 4.5 Infructescence |, green;
  6 Infructescence
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  8 -
   3 -
   6 -
   7 Infructescence erect,
  6 Infructescence
 1.7 -
  3 -
 14 Infructescence grey or grey green;
 12 Infructescence green,
  4 Infructescence occasionally pendent;
 3.5 -
  5 Infructescence
 13 Infructescence green, erect or pendent;
  5 Infructescence pendent, green;
 10 Infructescence pendent, |, more than
 60 -
  4 Infructescence erect, |, green;
 10 -
 9.5 Infructescence
  4 Infructescence erect to pendent,
   7 Infructescence
16.5 Infructescence
  8 Infructescence erect;
 20 -
 12 -
    Infructescence recurved,
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 11 -
 11 -
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Page 110

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43	100 erect
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53	1 erect or pendent
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106	10 pendent
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43	100 erect
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792		1 green or brownish
782	10	0 green

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782	110 green, grey
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to 1.2 cm thick	-
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2.5 cm long , ca. 1 cm thick	2.5
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7-8 cm long , 3 cm thick	7-8
1-3 x 0.8-1 cm	1-3
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to 6 cm long , 10 mm wide	_	6
6 x 1 cm (when dried)	_	6
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2.5.7 am land	-	
3.5-7 cm long to 0.5 cm thick	3.5-7	
to 0.5 cm thick	-	
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to 12 cm long , 4 mm wide		12
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to 9 cm long		9
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12 cm long , 0.5 cm thick		12
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to 7 cm long , to 1 cm thick		7
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to 11.5 cm long		11.5
0.6 cm thick to 6 cm long	-	6
to 15 cm long		6 15
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1 cm long , 0.3 cm thick		1
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/internodes	/internodes	/internodes/minimum
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interpodes winged or ridged below podes, groop or roddish	-	-
internodes winged or ridged below nodes, green or reddish.	-	-
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upper internodes 4-10 mm long	-	4
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internodes 2-6 cm long , green brownish or reddish.	_	2
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internodes 0.3-2 cm long , green often with red spots.	-	0.3
internodes 0.5-3 cm long , green.	-	0.5
internodes 0.2-1.6 cm long , green with lilac.	-	0.2
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upper internodes densely glandular.	-	-
upper internodes rather slender.	-	-
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upper internodes drying finely ridged.	-	-
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Internodes black glandular-dotted, more densely so on nodes.	-	-
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upper internodes finely striate.	-	-
Upper internodes finely striate, glabrescent.	-	-
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/internodes/colour /internodes/colour 0 -0 -100000 green or reddish 0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -1000 brownish or reddish 0 -0 -101 green,red 100 green 10100 green,lilac 0 -

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/leaves	/leaves
Leaves simple, alternate, opposite or in whorls;	-
Leaves alternate, opposite or in whorls or 3-7 per node;	-
Leaves alternate;	-
Leaves in whorls of (2-)3-4, basely attached;	-
Leaves opposite or in whorls of 3-7 (sometimes dimorphic), basely attached;	-
Uppermost leaves opposite, the others alternate;	-
Leaves alternate, basely attached;	-
Leaves in whorls of 1-4, basely attached;	-
Leaves basely attached, alternate;	-
Leaves alternate, distinctly peltate;	-
Leaves alternate;	-
Leaves alternate, distinctly peltate;	-
Leaves basely attached, alternate;	-
Leaves alternate, basely attached;	-
Leaves alternate, basely attached;	-
Leaves in whorls of 1-4, basely attached;	-
Leaves alternate, basely attached;	-
Leaves alternate;	-
Leaves alternate, basely attached;	-
Leaves alternate, basely attached;	-
Leaves alternate, slightly subpeltate;	-
Leaves alternate, basely attached;	-
Leaves opposite, basely attached;	-
Leaves in whorls of 3-6, usually 4, basely attached;	-
Leaves alternate, basely attached;	-
Leaves in whorls of 3-5, usually 4;	-
Leaves alternate, basely attached, sometimes subpeltate,	-
Leaves alternate, slightly peltate;	-
Leaves alternate, basely attached;	-
Leaves in whorls of 4, basely attached;	4
Leaves alternate;	-
Leaves alternate;	-
Leaves alternate;	-
Leaves somewhat glandular-dotted;	-
Leaves somewhat glanddiar-dolled,	-
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/leaves/blade
blade |, green above, often reddish brown beneath, |,
blade basely attached or slightly peltate,
blade |, bright green, |,
blade |, ciliate towards obtuse apex,
blade |, densely black-glandular (when dried), |,
blade |, somewhat ciliate towards apex,
blade |, more or less ciliate,
blade |, often red-dotted, |,
blade |, sometimes pink below, |,
blade shiny green, pale green below, I, often with red spots, I,
blade glandular-dotted,
blade |, maybe sparsely ciliate,
blade |, dark green above, light green beneath, |,
blade |, ciliolate towards apex,
blade pale glandular-dotted,
blades basely attached or peltate, symmetrical or asymmetrical, at base often quite some difference in attachment of blad
blade not conspicuously glandular-dotted,
blade |, yellow-green, |,
blade |, not conspicuously glandular-dotted, shiny green above, pale below, often drying yellowish green, |,
blade not conspicuously glandular-dotted,
blade |, not conspicuously glandular-dotted, |,
blade |, somewhat glandular-dotted, often bicoloured, sometimes glaucous or whitish below in vivo, drying silvery shiny, |,
blade shiny green above, lighter to whitish below,
blade glandular-dotted,
blade |, not conspicuously glandular-dotted, |,
blade not conspicuously glandular-dotted,
blade glossy, |, not conspicuously glandular-dotted, |,
blade |, not conspicuously glandular-dotted, |,
blade |, densely glandular-dotted below, |,
blade glandular-dotted,
blade |, not glandular-dotted, |,
blade |, densely glandular-dotted, |,
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blade |, often drying yellowish or greyish green, not scabrous, not conspicuously glandular-dotted below, |,

blade dark green above often with a pale or white band along primary vein, pale green below, not conspicuously glandula

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blade I, not glandular-dotted, I,
blade |, not conspicuously glandular-dotted, |,
blade |, not glandular-dotted, dark green above, more pale below, |,
blade |, not glandular-dotted, |,
blade |, dark glandular-dotted on both sides, |,
blade drying glossy above, |, not conspicuously glandular-dotted, |,
blade |, glandular-dotted, |,
blade |, not conspicuously glandular-dotted, dark green above, pale below, |,
blade |, not glandular- but finely pellucid-dotted,
blade |, glandular-dotted, |,
blade |, not conspicuously glandular-dotted, yellow-green, |,
blade |, densely glandular-dotted, |,
blade |, somewhat glandular-dotted below, |,
blade |, glandular-dotted, |,
blade |, glandular-dotted, often greyish below, |,
blade not conspicuously glandular-dotted, shiny,
blade discolourous, I, not conspicuously glandular-dotted, I,
blade not conspicuously glandular-dotted, J, subobovate or ovate,
blade sometimes discolorous and pale brown beneath, I, not conspicuously glandular-dotted, I,
blade |, discolorous often drying yellowish, conspicuously dark-glandular-dotted, |,
blade not dark glandular-dotted,
blade shiny dark green above, pale below, densely black glandular-dotted, translucent dotted in vivo,
blade |, not glandular-dotted, |,
blade |, not glandular-dotted, |,
blade |, glandular-dotted, |,
blade glandular-dotted,
blade |, densely glandular-dotted below, |,
blade |, glandular-dotted to densely glandular-dotted, |,
blade |, dull green, not conspicuously glandular-dotted, |,
blade |, not conspicuously glandular-dotted, |,
blade not conspicuously glandular-dotted, often drying dull greyish green,
blade |, not conspicuously glandular-dotted, |,
blade |, not glandular-dotted, |,
blade |, densely glandular-dotted on both surfaces, |,
blade not glandular-dotted,
blade |, conspicuously dark-glandular-dotted below, |,
blade sometimes with pale band along primary vein, I, more or less orange glandular-dotted on lower surface, sometimes
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blade |, glandular-dotted, |,

/leaves/blade/shape	/leaves/blade/shape	/leaves/blade/shape	/leaves/blade/texture
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ciliate	0	0
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glabrous,pubescent	0	0
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/leaves/blade/colour
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brown,green,reddish
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pink
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green,yellow
green,yellowish
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red,silver,whitish
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green,white
green,greyish,yellowish,yellowish or greyish

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green	
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green,yellow	
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brown	
yellowish	
- black,green	
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green	
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green,greyish	
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orange	

/leaves/blade/apex	/leaves/blade/apex/shape
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apex acuminate,	124
apex acute or acuminate,	251
apex acute or somewhat acuminate,	124
apex emarginate with some hairs at notch,	0
apex emarginate,	0
-	0
apex acute to acuminate,	250
apex rounded,	6274
apex rounded or emarginate,	6274
apex acuminate,	124
apex acuminate,	124
apex acute or acuminate,	251
apex rounded, obtuse occasionally slightly emarginate to acutish,	4921
apex rounded to emarginate,	6274
apex rounded, obtuse or emarginate,	4921
apex obtuse,	4921
apex acute to obtuse,	326
apex acuminate,	124
apex acuminate,	124
apex acute to obtuse,	326
apex obtuse, rounded or slightly acute,	247
apex emarginate, occasionally with hairs in indentation,	0
apex acutely obtuse,	247
-	0
apex rounded,	6274
apex rounded,	6274
apex obtuse and minutely emarginate with hairs in indentation,	4921
apex obtuse, rounded or emarginate,	4921
apex rounded or somewhat acute,	247
apex acute to obtuse,	326
-	0
apex long-acuminate,	124
apex acuminate,	124
apex acuminate,	124
apex long-acuminate,	124
apex acuminate,	124
apex long-acuminate,	124
apex acute to short-acuminate,	124
apex acute to (long-)acuminate,	124
apex acute,	247
apex abruptly long-acuminate,	124
apex short-acuminate or acute,	128
apex acuminate,	124
apex long-acuminate,	124
apex acute to slightly acuminate,	124
apex acute to acuminate,	250
apex acute,	247
apex acute to acuminate,	250
apex obtuse-acute to acuminate,	250
apex long-acuminate,	124
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apex acuminate,	124
apex acuminate or acute,	128
apex acuminate,	124
apex acuminate,	124
apex acute to acuminate,	250
apex (long) acuminate,	124
apex short-acuminate,	124
apex long-acuminate,	124
apex acuminate,	124
apex acute,	247
apex long-acuminate to obtuse,	203
apex acuminate,	124
apex acute to acuminate,	250
apex acuminate,	124
apex acuminate,	124
apex acuminate,	124
apex obtuse or acutish,	4921
apex (long-)acuminate,	124
apex acute to short-acuminate, lower half of blade asymmetrical,	124
apex (long-)acuminate,	124
apex (long-)acuminate,	124
apex acuminate,	124
apex acute to short-acuminate,	124
apex acute to acuminate,	250
apex short-acuminate, maybe somewhat obtuse,	124
apex acute,	247
apex acuminate,	124
apex acute or acuminate,	251
apex acuminate,	124
apex long-acuminate,	124
apex long-acuminate,	124
apex (long-)acuminate,	124
apex obtuse, rounded or slightly acute,	247
apex acuminate,	124

/leaves/blade/apex/shape	/leaves/blade/apex/shape	/leaves/blade/apex/hairs
-) -	0
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	acuminate	0
	acute or acuminate	0
	acuminate,acute	0
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10000 acute to acuminate	0
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10000 acute to acuminate	0
1100100 acuminate,ob,obtuse	0
100000000 acute	0
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1101100000 acute,ob,obtuse,rounded	0
100 acuminate	0

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/leaves/blade/base

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base acute, glabrous;

base acutish to cuneate, glabrous;

base acute, pubescent usually on both sides;

base rounded or subtruncate, glabrous above, minutely hirtellous at base below;

base rounded or truncate, glabrous or with a few hairs;

base acutish, glabrous;

base acute to acuminate, sometimes subobtuse, glabrous;

base rounded, pilose with erect trichomes on upper surface;

base cuneate;

base rounded, minutely pubescent, glabrescent;

base acute, decurrent into petiole, glabrous;

base rounded or cordulate or acutish, glabrous or slightly pubescent, a waxy exudate like small scales or stars is usually pubescent.

base cuneately decurrent into petiole, sometimes abruptly contracted, glabrous;

base acute, glabrous or loosely villous on upper surface, glabrescent, glabrous below;

base cuneate, glabrous;

base acute to obtuse, sparsely to densely villous above, less so beneath, or glabrescent;

base rounded, cordulate or truncate;

base cuneate;

base rounded to cordulate, minutely ciliate towards apex;

base acute or obtuse, glabrous or slightly hirtellous, green above, often magenta-red below;

base acute to rounded, dark green above, with paler veins beneath, minutely puberulent above, sparsely so and glabresc base acute:

base cordate, cordulate or rounded, brown appressed-pilose above, below light green (Tillett), red with green (Persaud) o

.

base rounded, glabrous to puberulent;

base rounded, some hairs on young leaves only;

base acutish to obtuse, glabrous and ciliate, sometimes sparsely pilose;

base obtuse to subacute, somewhat ciliate towards apex and sparsely puberulent to glabrous;

base rounded to cordulate:

base truncate to subcordate, occasionally obtuse, pubescent or villous on both sides, glabrescent;

_

base unequally attached to petiole difference |, acute or obtusish, glabrous or pubescent above, (densely) crisp-pubescer base unequally attached to petiole |, rounded to subcordate, sparsely pubescent at least on veins above or glabrescent, s base equally attached to petiole, acute, cuneate or obtuse, may be truncate or subcordate on sterile branches;

base equally attached to petiole, acute;

base equally attached to petiole, acute to subcordate, glabrous or pubescent on veins below;

base equal or almost equally attached to petiole, acute, glabrous;

base equal or almost equally attached to petiole, cuneate or acute, glabrous;

base unequally attached to petiole difference |, longest side obtuse, rounded to cordulate, in narrow leaves acute, shorter base almost equal to unequally attached to petiole, acute or obtuse, occasionally truncate;

base equal or almost equally attached to petiole, acute, glabrous;

base unequally attached to petiole difference |, rounded, obtuse or subacute, glabrous or sparsely short-pubescent above base equal or almost equally attached to petiole, acute, glabrous;

base equal, acute, glabrous above, glabrescent or glabrous below;

base unequally attached to petiole difference |, narrowing to lobed base, lobes shorter than petiole, unequal, longer one s base equal or unequally attached to petiole difference |, subcordate or obtuse, shorter side cuneate, pilose above, more d base equal or almost equally attached to petiole, deeply unequally lobed, glabrous or sparsely pubescent above, veins glabase equal or somewhat unequally attached to petiole difference |, acute or obtuse or rounded or subcordate, glabrous or base equal or almost equally attached to petiole, rounded to subcordate, glabrous above, crisp-pubescent below especial base equal or almost equally attached to petiole, truncate, rounded or cordulate, glabrous above or primary vein somewhat

base equal or almost equally attached to petiole, truncate or cuneate, but acute to petiole, glabrous above, veins more or base equal or almost equally attached to petiole, subcordate to rounded, somewhat pilose above, more so below;

base unequally attached to petiole difference |, unequally cordate, with slightly larger, auriculate lobe mostly covering petion base unequally attached to petiole difference |, unequally cordate, rounded or obtusish, upper surface glabrous to pubesc base almost equal, obtuse or acute, glabrous;

base equal or unequally attached to petiole difference |, rounded or cordulate, one side may be subacute, glabrous above base equal or almost equally attached to petiole, acute, truncate to subcordate, sparsely villous above, more densely so base almost equal, acute, glabrous;

base equal or unequally attached to petiole difference |, acute, glabrous;

base almost equally attached to petiole, unequally obtuse or acute, glabrous except for veins crisp-pubescent below;

base equal or almost equally attached to petiole, unequally cordate, lepidote-scabrid above, lower surface and veins hirsubase equal or unequally attached to petiole difference

base equal, obtuse, truncate, rounded or subacute, glabrous except sparsely minutely pubescent veins above, minutely c base unequally attached to petiole difference |, rounded to subcordate, pilose above and below;

base unequally attached to petiole difference |, obliquely rounded or cuneate with one side occasionally cordulate, lepidot base unequally attached to petiole difference |, obtuse, rounded to subcordate, sometimes acute, glabrous above, below base unequally attached to petiole difference |, obliquely rounded, glabrous above, veins brown-villous below;

base unequally attached to petiole difference |, unequally cordate or obtuse, glabrescent but veins may be recurved-pube base unequally attached to petiole difference |: shorter side obtuse to abruptly acute, longer side abruptly rounded, obtuse base equal or unequally attached to petiole difference |, acute, cuneate or obtusish, glabrous above, glabrous often minut base equal or almost equally attached to petiole, deeply cordate, glabrescent or veins puberulent;

base equal or almost equally attached to petiole, acute or cuneate or obtusish, occasionally rough above (from scale-like base equal or almost equally attached to petiole, subacute to obtusish, glabrous;

base unequally attached to petiole difference |, unequally lobed, basal lobes shorter or longer than petiole, occasionally or base equal or unequally attached to petiole difference at most |, cuneate to obtusish, rounded or subcordate, glabrous but base nearly rounded to usually deeply cordate, glabrous except for short hairs on veins;

base equal or unequally attached to petiole difference |, obtuse to rounded, glabrous, but veins sparsely to densely appre base unequally attached to petiole difference |, acute, glabrous;

base equal or almost equally attached to petiole, subacute to obtuse or rounded, glabrous;

base equal, rounded to subcordate to deeply cordate, glabrous but veins glabrous or sparsely pubescent below;

base unequally attached to petiole difference |, obtuse to subcordate, almost glabrous above, veins may be somewhat ap base equal or unequally attached to petiole difference |, subcordate or obtusish, pubescent on both surfaces, veins more base equal, obtuse or rounded;

base almost equal, acute to cuneate, glabrous;

base equal or almost equally attached to petiole, acute, glabrous;

base equal, obtuse or subacute, densely villous below;

base equal or unequally attached to petiole difference |, obtuse to rounded to subcordate occasionally cuneate, glabrous base unequally attached to petiole difference |, shorter side acute to obtuse, longer side rounded or cordate, glabrous or gbase equal or almost equally attached to petiole, acute or cuneate, glabrous above, erect-pubescent below, more so on v

/leaves/blade/base/shape	/leaves/blade/base/shape
0	0
0	0
247	100000000000000000000000000000000000000
2338	10
247	100000000000000000000000000000000000000
6274	1.00000000000E+044
6392	1
0	0
250	100000000000000000000000000000000000000
6274	1.00000000000E+044
2338	10
6274	1.000000000000E+044
247	100100000000000000000000000000000000000
6274	1.00000000000E+044
2338	100000000000000000000000000000000000000
247	100000000000000
2338	10
326	100000000000000000000000000000000000000
6274	1.00000000000E+044
2338	10
6274	1.00000000000E+044
327	100000000000000000000000000000000000000
348	100000000000000000000000000000000000000
247	100000000000000000000000000000000000000
2092	1.00000000000E+044
0 6274	0 1.000000000000E+044
6274	1.000000000000000000000000000000000000
4921	100000000000000000000000000000000000000
4926	100000000000000000000000000000000000000
6274	1.0000000000E+044
4306	100000000000000000000000000000000000000
0	0
317	100000000000000000000000000000000000000
6309	100000000000
247	100000000100000000000000000000000000000
247	10000000000000
280	100000000
247	100000000000000000000000000000000000000
2344	100000000000000000000000000000000000000
326	1.00000000000E+044
327	100100000000000000000000000000000000000
247	100000000000000000000000000000000000000
4927	1.00000000000E+044
247	100000000000000000000000000000000000000
247	100000000000000
4306	10010000000
2172	100000000000000000000000000000000000000
4306	1000000000
327	100000000000100000000000000000000000000
6309	100000000000
6274	1.000000000000E+044

247	100000001000000000000000000000000000000
2193	1000
985	100000010000000000000000000000000000000
2092	1.00000000000E+044
4927	100000000000000000000000000000000000000
247	1.0000001000000E+044
247	100000000001000000000000000000000000000
247	100000000000000000000000000000000000000
247	100000000000000000000000000000000000000
4927	100000000000000000000000000000000000000
2092	100000000000000000000000000000000000000
0	0
4306	1.0000100000000E+044
6309	100000000000
4306	1.01000000000E+044
247	1.0000100000000E+044
4675	1.010000000000E+044
2172	100000000000000000000000000000000000000
247	1.00001010000000E+044
247	100100000000010
2092	100000000000000000000000000000000000000
285	100000000000000000000000000000000000000
316	100
4306	1000000000
2338	1.000000000010E+044
2092	1.0000000000000E+044
5022	100000000000000000000000000000000000000
247	100000000000000000000000000000000000000
326	100000000000000000000000000000000000000
6309	100000000000
4956	100000000000000000000000000000000000000
2162	100000000000000000000000000000000000000
5023	100000000000000000000000000000000000000
284	100000
247	100000000000000000000000000000000000000
4927	100000000000000000000000000000000000000
2338	100000000000000000000000000000000000000
326	1.10000000000E+044
285	100000000000000000000000000000000000000
200	T0000000000000000000000000000000000000

/leaves/blade/base/shape acute cuneate acute rounded,truncate rounded or truncate acute to acuminate, ob, obtuse rounded cuneate rounded acute, decurrent rounded cuneate, decurrent acute cuneate acute to obtuse rounded,truncate cuneate rounded acute or obtuse acute to rounded acute cordate,rounded rounded rounded obtuse obtuse to subacute rounded ob, obtuse, truncate acute or ob rounded to subcordate acute, subcordate, cuneate, cuneate or ob, obtuse, truncate, truncate or subcordate acute acute to subcordate acute cuneate or acute acute to obtuse, rounded acute or obtuse,truncate acute obtuse or subacute, rounded acute acute ob.subreniform subcordate or obtuse acute or obtuse, obtuse or rounded, rounded or subcordate rounded to subcordate

rounded,truncate

 $acute, cune ate, truncate, truncate \ or \ cune ate$

subcordate to rounded

auriculate, cordate, ob

cordate, ob, rounded, rounded or ob

obtuse or acute

subacute,rounded

acute, subcordate, truncate, truncate to subcordate

acute

acute

obtuse or acute

cordate

-

ob, obtuse, rounded, truncate

rounded to subcordate

ob, oblique, rounded

acute, subcordate, ob, obtuse, rounded, rounded to subcordate

oblique,rounded

cordate or obtuse

acute,cordate,ob,obtuse,obtuse or cordate,rounded

acute, cuneate, cuneate or ob

cordate

acute or cuneate, cuneate or ob

subacute to ob

ob

cuneate,cuneate to ob,rounded

cordate,rounded

obtuse to rounded

acute

subacute to obtuse, obtuse or rounded

rounded to subcordate

obtuse to subcordate

subcordate or ob

obtuse or rounded

acute to cuneate

acute

obtuse or subacute

cuneate, ob, obtuse, obtuse to rounded

acute to obtuse, rounded, rounded or cordate

acute or cuneate

/leaves/blade/base/hairs /	leaves/blade/base/hairs /leaves/blade/base/hairs
0	0 -
0	0 -
71	100000000 glabrous
71	100000000 glabrous
386	10 pubescent
71	1000100000000 glabrous, hirtellous
71	100100000000 glabrous, hairs
71	100000000 glabrous
71	100000000 glabrous
316	100000100000 pilose,trichomes
0	0-
71	10000000000000000000000000000000000000
71	100000000 glabrous
71	100000000 glabrous,pubescent
71	1000000010 glabrous
71	1000010000 glabrous,villous
71	1000010000 glabrous
	<u> </u>
71	100000000010000 glabrescent,villous
0	0 -
0	0 -
1	100000000 ciliate
71	10001000000000 glabrous, hirtellous
71	1000000000001000 glabrescent,puberulent
0	0 -
106	100000100000 hairs,pilose
0	0 -
90	100000000000000 glabrous to puberulent
106	100000000000 hairs
1	1100100000 ciliate,glabrous,pilose
1	10000001100001000 ciliate, glabrous, puberulent, puberulent to glabrous
0	0 -
71	1010000000000000 glabrescent, pubescent, pubescent or villous
0	0 -
93	100010000000000000 glabrous or pubescent, pubescent or villous
392	1000000000 pubescent or glabrescent
0	0 -
0	0 -
93	100000000000000000 glabrous or pubescent
71	100000000 glabrous
71	100000000 glabrous
71	100000010 glabrous,pubescent
0	0-
71	100000000 glabrous
71	100000010 glabrous,pubescent
71	100000000 glabrous
71	100000000 glabrous
71	100100000010 glabrous,hairs,pubescent
316	100000 pilose
71	1000000 pilose 1000000010 glabrous,pubescent
71	1000000010 glabrous
71	100000000 glabrous,pubescent
71	100000010 glabrous,pubescent
/ 1	TOOOOOTO Gianious, punescent

74	4.0000004.0 alabassa asabas asaa
71	100000010 glabrous,pubescent
316	100000 pilose
71	100000010 glabrous, pubescent
92	100 glabrous to pubescent
71	1000000000 glabrous
71	1001000000 glabrous,hirsute
596	10000 villous
71	1000000000 glabrous
71	1000000000 glabrous
71	100000010 glabrous,pubescent
141	11000000 hirsute,lepidote
0	0 -
71	100000010 glabrous, pubescent
316	100000 pilose
141	11000000 hirsute,lepidote
71	100000001 glabrous, appressed pubescent
71	1000010000 glabrous, villous
71	100000000000000000 glabrescent, pubescent
71	1000000010 glabrous, pubescent
71	100000010 glabrous, pubescent
71	10000000000001000 glabrescent,puberulent
71	1000000000 glabrous
71	1000000000 glabrous
71	100000010 glabrous, pubescent
71	100000010 glabrous, pubescent
71	1001000000000 glabrous,hairs
71	100000010 glabrous, pubescent
71	1000000000 glabrous
71	1000000000 glabrous
71	100000010 glabrous, pubescent
71	100000010 glabrous, pubescent
386	10 pubescent
0	0 -
71	1000000000 glabrous
71	1000000000 glabrous
596	10000 villous
71	100000010 glabrous, pubescent
71	100000010 glabrous, pubescent
71	100000010 glabrous, pubescent

/leaves/blade/base/growth form /	leaves/blade/base/growth form /leaves/blade/base/growth form
0	0 -
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0	0 -
0	0 -
0	0 -
0	0 -
0	0 -
43	1 erect
0	0 -
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/leaves/blade/base/colour		
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782		
782		green,magenta,red green
0	000	
285		brown,green,red,white
0	0	
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O.F. 1 cm (logg in voung logyes)
0 F 1 cm (loop in young looyes)
0.5-1 cm (less in young leaves) -
-
0.1-0.5 cm -
_
0-0.2 cm -
0.2-0.3 cm -
0-4 mm -
- -

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-	-	
0.1-0.4 cm	-	
0.3-0.4 cm		
0.5-0.4 cm	-	
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0-0.5 cm	-	
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0.2 cm		0.2
0.2 0.11		0.2
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0.2 cm		0.2
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0-0.8 cm	-	
0.2-0.6 cm	_	
0-0.7 cm		
0.2-0.5 cm	-	
0.1-0.7 cm	-	
0-0.5 cm	-	
up to 0.5 cm	-	
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up to 1 cm	-	
0.1 cm		0.1
-	-	
0-0.3 cm	-	
0.2-0.3 cm	-	
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0.1-0.3 cm	-	
0-0.3 cm	-	
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-	-	
0-0.5 cm	-	
0.2-0.7 cm	-	
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/leaves/blade/base/differential distance/minimum	/leaves/blade/base/differential distance/maximum
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	Sheet1	
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	0.2	0.6
	0	0.6 0.7
	0.2	0.5
	0.1	0.5 0.7
	0	0.5
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	0.2	0.3
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	0.1	0.3
	0	0.3
	U	0.5
-	-	

0 0.2 0.5 0.7

/leaves/blade/dimensions	/leaves/blade/dimensions/length
-	-
-	-
4.5-13 x 2-5 cm	4.5-13
2-6 x 1-3 cm	2-6
2-8 x 0.8-4 cm	2-8
0.5-0.8 x 0.5-1 cm	0.5-0.8
-	-
0.5-3.0 x 0.2-0.6 cm	0.5-3.0
1.5-8 x 0.5-3.5 cm	1.5-8
1-4.5 x 1-3.5 cm	1-4.5
4.5 x 3-4 cm	4.5
4.5-8 x 3-5.5 cm	4.5-8
(3.5-)7-17 x (0.7-)1-3 cm	7-17
4-11 x 1.5-6 cm	4-11
4.5-14 x 2.5-6 cm	4.5-14
1-3.5 x 0.6-2.3 cm	1-3.5
4-14.5 x 2.5-6.5 cm	4-14.5
0.5-2 x 0.3-0.9 cm	0.5-2
1-3.7 x 1-3.5 cm	1-3.7
15-30 x 4-12 cm	15-30
to 12 x 7 cm	12
1-3.5 x 0.8-2.3 cm	1-3.5
1-4.5 x 0.8-2.2 cm	1-4.5
0.6-1.8 x 0.4-1.0 cm	0.6-1.8
0.8-2.5 x 0.8-2.5 cm	0.8-2.5
1.3-1.5 x 0.4-1 cm	1.3-1.5
(0.5-)1-1.2 x (0.5-)1-1.2 cm	1-1.2
1-2 x 1-2 cm	1-2
0.6-1.5 x 0.2-1.4 cm	0.6-1.5
0.6-1.2 x 0.4-1.0 cm	0.6-1.2
2-7 x 1.5-6.5 cm	2-7
2-3 x 2.7-7 cm	2-3
- · · · · · · · · · · · · · · · · · · ·	-
8-16.5 x 3-6 cm	8-16.5
12-24 x 3-8 cm	12-24
12-23 x 3.5-9 cm	12-23
20-31 x 6-12 cm	20-31
8-11 x 2.5-6 cm	8-11
5-11 x 1-2.8 cm	5-11
8-16 x 2-4.7 cm	8-16
10-25 x 6-11 cm	10-25
15-35 x (6-)9-15 cm	15-35
13-16.5 x (3.5-)4-6.5 cm	13-16.5
7-18 x 3-7.5 cm	7-18
13-30 x 5-8 cm	13-30
7-10.5 x 0.7-1.5 cm	7-10.5
9.5-16 x 3.5-7.2 cm	9.5-16
(7-)11-21 x (3-)4-11 cm	11-21
23-60 x 14-28 cm	23-60
13-22 x 6-11 cm	13-22
3.5-7 x 1-2 cm	3.5-7
11-24 x 6-13 cm	11-24
II ∠¬ ∧ U-IJ UII	11 24

13-20 x 5-13 cm	13-20
9-20 x 4-6 cm	9-20
11-26 x 4-9 cm	11-26
15-20 x 7-9 cm	15-20
10-20 x 3-8 cm	10-20
13-21 x 7.5-10 cm	13-21
18-22 x 5.5-7.5 cm	18-22
6-16 x 1.5-3 cm	6-16
10-14 x 3-4.5 cm	10-14
8-13 x 3.5-5.5 cm	8-13
5-12 x 2.5-6.5 cm	5-13
14-28 x 7-14 cm	14-28
5-8 x 1.5-3.5 cm	5-8
16-25 x 6-9.5 cm	16-25
11-23 x 4-11 cm	11-23
10-25 x 2.5-13 cm	10-25
9-15 x 5-7 cm	9-15
4-17 x 3-6.5 cm, (on young creeping branches ca. 1.5-5 x 0.8-1.8 cm	4-17
20-24 x 7.5-9.5 cm	20-24
13-23 x 4-8.5 cm	13-23
10-12 x 8-15 cm	10-12
8-15 x 3-6 cm	8-15
8-19 x 5-10 cm	8-19
20-60 x (12-)20-35 cm	20-60
7-17 x 2.5-6 cm	7-17
to 16-30 x 18-40 cm	16-30
16-27 x 7-13 cm	16-27
9-16 x 2.5-7 cm	9-16
(5.5-)7.5-17 x (2.5-)3.5-6.5 cm	7.5-17
7-12 x 3-5 cm	7-12
11-25 x 4.5-8 cm	11-25
17-30 x 10-17 cm	17-30
14-30 x 7-18 cm	14-30
9-13 x 2-4 cm	9-13
14-20 x 5-7 cm	14-20
5-7.5 x 1-1.5 cm	5-7.5
12-33 x 5-13 cm	12-33
4-12 x 2-6 cm	4-12
12-15 x 3.5-5 cm	12-15

/leaves/blade/dimensions/length	/leaves/blade/dimensions/length/minimum
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-	4.5
-	2
-	2 0.5
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-	1.5
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-	1.3
-	1 1
-	0.6
-	0.6
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-	12 20
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-	5
-	8
-	10 15
-	13
-	7
-	13 7
-	9.5
-	11
-	23
-	13 3.5
-	11

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	15
-	15
-	10
-	13
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-	16
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-	9 7.5
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-	17
-	14
-	9
_	14
	14
-	5 12
-	12
-	4 12
-	12

/leaves/blade/dimensions/length/maximum	/leaves/blade/dimensions/width
-	-
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1:	3 2-5
	6 1-3
	3 0.8-4
	8 0.5-1
0.0	
· -	-
	3 0.2-0.6
	8 0.5-3.5
4.5	5 1-3.5
-	3-4
\	8 3-5.5
1	7 (0.7-)1-3
1:	1 1.5-6
14	4 2.5-6
3.!	5 0.6-2.3
	5 2.5-6.5
	2 0.3-0.9
	7 1-3.5
	0 4-12
31	7
-	
	5 0.8-2.3
	5 0.8-2.2
	8 0.4-1.0
	5 0.8-2.5
	5 0.4-1
1.3	2 (0.5-)1-1.2
:	2 1-2
1.1	5 0.2-1.4
1.2	2 0.4-1.0
	7 1.5-6.5
	3 2.7-7
<u>-</u>	-
16.1	5 3-6
	4 3-8
	3 3.5-9
	1 6-12
	1 2.5-6
	1 1-2.8
	6 2-4.7
	5 6-11
	5 (6-)9-15
16.	5 (3.5-)4-6.5
18	8 3-7.5
30	0 5-8
	5 0.7-1.5
	6 3.5-7.2
	1 (3-)4-11
	0 14-28
	2 6-11
	7 1-2
24	4 6-13

20 5-13

20 4-6

26 4-9

20 7-9

20 3-8

21 7.5-10

22 5.5-7.5

16 1.5-3

14 3-4.5

13 3.5-5.5

12 2.5-6.5

28 7-14

8 1.5-3.5

25 6-9.5

23 4-11

25 2.5-13

15 5-7

17 3-6.5

24 7.5-9.5

23 4-8.5

128-15

15 3-6

19 5-10

60 (12-)20-35

17 2.5-6

30 18-40

27 7-13

16 2.5-7

17 (2.5-)3.5-6.5

12 3-5

25 4.5-8

30 10-17

30 7-18

13 2-4

20 5-7

7.5 1-1.5

33 5-13

12 2-6

15 3.5-5

/leaves/blade/dimensions/width	/leaves/blade/dimensions/width/minimum
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-	1
-	1.5
-	2.5
-	0.6
-	2.5
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-	0.8
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-	0.8
-	0.4
-	1
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-	0.2
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-	1.5
-	2.7
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-	3.5
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-	1
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-	1.5
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-	8 3 5
-	3
-	5
-	20
-	2.5
-	18
-	7 2.5
-	2.5
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/leaves/blade/dimensions/width/maximum	/leaves/hlade/dimensions/growth form
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3.5	5
3.5	5
	0
5.5	
3	
6	
6	
2.3	
6.5	
0.5	
3.5	
12	
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2.3	
2.2	
1	
2.5	
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margin not c	iliate,
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margin ciliate	e,
margin ciliate margin ciliola margin ciliate	ate at apex, obtuse at apex, narrowly acute at base, glabrous above, sparsely minutely pubescent below;
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margin ciliola -	ate towards apex,
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margin protr margin ciliate	acted beyond base of blade forming a ligule-like structure to 4 mm long e,
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margin hardly ciliate,
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margin not ciliate,
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margin ciliate towards apex, margin long-ciliate,
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margin occasionally ciliate,
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- margin ciliolate, margin enlarged;
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/leaves/blade/shape

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elliptic or broadly elliptic or ovate

rhombic to elliptic or oblanceolate

elliptic, narrowly elliptic, or obovate, often rhombic

oblately suborbicular

orbicular or subreniform

narrowly spathulate, narrowly elliptic or narrowly oblanceolate, larger towards apex of stem

narrowly ovate or ovate

broadly elliptic to orbicular

ellipic to obovate (to broadly ovate in extra-Guianan specimens)

narrowly ovate, ovate or almost orbicular

narrowly elliptic or narrowly oblanceolate

narrowly elliptic to ovate

obovate or elliptic, sometimes even broadly elliptic

obovate or somewhat elliptic

elliptic, obovate or subspathulate

oblong-elliptic or oblong-obovate or almost orbicular

broadly elliptic to deltoid

narrowly elliptic or oblanceolate

ovate

elliptic, subobovate or broadly ovate

broadly elliptic, obovate or orbicular

subspathulate, or elliptic-, or oblong-obovate

broadly ovate to deltoid

subrhombic, elliptic or narrowly elliptic

broadly elliptic to elliptic or almost orbicular

broadly elliptic or deltoid

elliptic or ovate

rhombic, ovate-elliptic to suborbicular

ovate with acutish apex or broadly ovate to almost orbicular

deltoid, ovate to broadly ovate

-

lance-elliptic or elliptic-ovate

lanceolate or lanceolate-oblong or elliptic-ovate

lanceolate to lance-elliptic or elliptic-ovate, broadly ovate on sterile branches, often asymmetrical: with one side wider in the elliptic

lanceolate to rounded or subobovate

narrowly lanceolate

lanceolate to oblong to elliptic or ovate, 3-4 x longer than wide

oblong-ovate, (narrowly) ovate or (narrowly) elliptic

elliptic-ovate to oblong-elliptic

oblong or elliptic-oblong

lance-elliptic or lanceolate-oblong or oblanceolate

elliptic-oblong

narrowly lanceolate

(narrowly) elliptic to subobovate

elliptic, lanceolate-oblong or ovate

broadly ovate to elliptic-ovate

elliptic-ovate to broadly ovate

narrowly elliptic or lanceolate-oblong

broadly ovate to ovate, or even suborbiculate

ovate

elliptic-ovate, elliptic-oblong or lanceolate

elliptic to oblanceolate

rhombic, elliptic to subobovate

rhombic, somewhat asymmetric

slightly asymmetrical, broadly elliptic

lance-elliptic to ovate to broadly ovate

narrowly lanceolate

elliptic(-oblong)

elliptic

ovate

elliptic to ovate

narrowly ovate to ovate

obovate to elliptic or elliptic-oblong

elliptic or elliptic-ovate

broadly elliptic or broadly to narrowly ovate

elliptic to broadly elliptic

elliptic

elliptic-oblong or somewhat ovate

elliptic, ovate, elliptic-oblong or rhombic

rounded to ovate

(narrowly) ovate to elliptic-oblong

elliptic, ovate to broadly ovate

elliptic-ovate to oblong

lance-elliptic, elliptic or elliptic-oblong

round-ovate

narrowly elliptic to elliptic-ovate

elliptic to ovate

elliptic-oblong to narrowly ovate

oblong to ovate

ovate or elliptic-ovate

broadly ovate or ovate

ovate or broadly ovate

narrowly ovate or lance-elliptic

narrowly elliptic or narrowly elliptic-oblong

narrowly elliptic or narrowly ovate

(narrowly) elliptic, elliptic-oblong or (narrowly) ovate

broadly ovate-elliptic

lance-elliptic to oblanceolate

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/leaves/blade/texture fleshy membranous or coriaceous fleshy to coriaceous slightly fleshy fleshy-membranous slightly fleshy fleshy to subcoriaceous fleshy to membranous fleshy in vivo, membranous almost transparent when dried coriaceous or subcoriaceous fleshy and membranous fleshy-coriaceous or subcoriaceous fleshy fleshy coriaceous coriaceous membranous, often drying translucent membranous coriaceous fleshy-coriaceous fleshy coriaceous fleshy-coriaceous fleshy, coriaceous coriaceous fleshy fleshy or fleshy coriaceous fleshy or slightly coriaceous fleshy-subcoriaceous fleshy to subcoriaceous fleshy, somewhat bullate in vivo, membranous, almost translucent when dried scabrous scabrous membranous or subcoriaceous not scabrous thin-coriaceous to coriaceous, may be somewhat rugose, not scabrous thick chartaceous, not scabrous coriaceous, not scabrous not scabrous not scabrous somewhat scabrous not scabrous not scabrous

firmly membranous

not scabrous somewhat scabrous membranous or subcoriaceous, not scabrous hardly to densely scabrous above coriaceous, drying shiny or membranous not scabrous may be somewhat bullate in vivo not scabrous not scabrous not scabrous scabrous not scabrous not scabrous not scabrous scabrous often on both surfaces not scabrous not scabrous fleshy, drying membranous not scabrous not scabrous slightly bullate to smooth, coriaceous and silvery shiny or membranous not scabrous membranous, not scabrous subcoriaceous membranous, bicolourous, not scabrous somewhat scabrous and bullate somewhat scabrous when dried membranous or firmly chartaceous not scabrous somewhat scabrous above coriaceous

not scabrous

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/leaves/petiole
petiole |, deeply grooved or winged;
petiole |, glabrous;
petiole |, pubescent;
petiole |, minutely hirtellous;
petiole |, often red, glabrous or with sparse hairs;
petiole |, minutely pubescent;
petiole |, usually ciliate with 2 rows of hairs;
petiole |, glabrous;
petiole not grooved or winged,
petiole attached |, minutely pubescent, glabrescent;
petiole |, glabrous, narrowly winged;
petiole |, glabrous, ciliate or puberulent, reddish;
petiole |, more or less laterally winged or grooved, glabrous;
petiole |, loosely villous;
petiole green or green with red spots, |, more or less grooved, minutely pubescent;
petiole |, loosely villous;
petiole |, glabrous;
petiole to
petiole
petiole
petiole |, glabrous or minutely pubescent;
petiole
petiole |, retrorsely appressed-pubescent;
petiole |, minutely pubescent;
petiole |, pubescent to glabrous;
petiole |, crisp-pubescent;
petiole |, glabrous or with a few hairs at node;
petiole |, minutely pubescent;
petiole attached
petiole |, crisp-pubescent;
petioles often vaginate or winged, at base only or to apex (base of leaf blade), their margins may extend beyond base of l
Petiole |, vaginate to middle;
petiole |, pubescent, vaginate near base;
Petiole slender, |, vaginate only at base;
Petiole |, vaginate at base;
Petiole slender, |, vaginate up to middle, glabrous or pubescent;
petiole |, vaginate at base, retrorsely pubescent;
Petiole |, canaliculate, ciliate on margin or keel, vaginate at base only;
Petiole glabrous or minutely pubescent, |, deeply vaginate,
Petiole |, vaginate at base;
Petiole |, glabrous, deeply vaginate at base;
Petiole |, vaginate to apex, often conspicuously winged, green or maroon;
Petiole |, glabrous, vaginate near or at base;
Petiole |, glabrous, vaginate to apex;
Petiole |, densely pubescent with long hairs, vaginate at base;
Petiole |, pilose;
Petiole vaginate to apex, |, densely pubescent;
Petiole of lower leaves |, of upper leaves |, glabrous, vaginate or winged to apex;
```

Petiole |, crisp-pubescent, vaginate near base;

Petiole |, glabrous or sparsely pubescent, vaginate to apex;

- Petiole |, glabrous or pubescent, vaginate to middle or to apex;
- Petiole |, pilose, glabrescent, vaginate to apex, sometimes reddish tinged;
- Petiole |, crisp-pubescent, vaginate to blade;
- Petiole |, pubescent sometimes densely so, vaginate to apex, occasionally reddish tinged;
- Petiole I, vaginate or grooved to apex;
- Petiole |, hirsute, broadly vaginate or winged to apex;
- Petiole 0.5-2(to 6 in fertile twigs) cm long, dark-villous (hairs at least
- Petiole |, ciliate, vaginate to apex;
- Petiole |, glabrous, vaginate below middle;
- Petiole |, crisp-pubescent, vaginate to apex;
- Petiole |, pubescent, vaginate at base;
- Petiole |, vaginate to apex, glabrescent;
- Petiole |, sparsely pubescent or glabrescent, vaginate to apex;
- Petiole |, long-hirsute, vaginate to apex (or to middle);
- Petiole I, hirsute:
- petiole |, crisp-pubescent, vaginate to apex;
- Petiole |, villous;
- Petiole |, pubescent, vaginate to apex;
- Petiole I, vaginate and narrowly winged to apex;
- Petiole |, vaginate to apex;
- Petiole vaginate to apex, |, glabrous;
- Petiole |, glabrous, pubescent when young, vaginate at base;
- Petiole I, glabrous, vaginate to apex;
- Petiole |, glabrous or densely brown-pubescent, green to brown, vaginate or winged to apex;
- Petiole |, hirsute, vaginate to middle;
- petiole attached at up to 1/3 of blade, rarely near base, I, vaginate or slightly winged in lower part;
- Petiole I, glabrous, vaginate to apex,
- Petiole |, vaginate to middle or to apex;
- Petiole |, vaginate at base;
- Petiole |, glabrous or sparsely pubescent, vaginate to apex;
- Petiole I, densely brown-pubescent;
- Petiole I, densely pubescent;
- Petiole |, glabrous, vaginate at base;
- Petiole |, vaginate to apex;
- Petiole |, glabrous, vaginate usually at base;
- Petiole |, villous;
- Petiole often stout, |, densely crisp-pubescent, vaginate to apex;
- Petiole tuberculate, I, minutely puberulent, glabrescent, vaginate to base of blade and extending shortly;
- Petiole |, densely pubescent or hirsute, vaginate at base;

/leaves/petiole	/leaves/petiole/minimum	/leaves/petiole/maximum	/leaves/petiole/texture
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/leaves/petiole/texture /leaves/petiole/texture		
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0 -	0	0
0 -	0	0
0 -	0	0
1 tuberculate	0	0
0 -	0	0

/leaves/petiole/position	/leaves/petiole/hairs	/leaves/petiole/hairs /leaves/petiole/hairs
-	0	0 -
-	0	0 -
-	0	
-	71	100000000 glabrous
-	386	10 pubescent
-	176	10000000000000 hirtellous
-	71	1001000000000 glabrous,hairs
-	386	10 pubescent
-	1	1000100000000 ciliate,hairs
-	71	
-	0	
-	71	10000000010 glabrescent, pubescent
-	71	
-	21	
lateral	71	·
-	596	3
-	386	
-	596	•
-	71	
_	0	
_	0	
_	0	
_	71	
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	386	
_	386	•
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_	71	•
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-	0	•
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-	71	3
-	71	9
-	106	••
-	316	•
-	386	•
-	71	3
-	386	•
-	71	100000010 glabrous,pubescent

- 93	10000000000000000000000000000000000000
- 71	100001000000 glabrescent,pilose
- 386	10 pubescent
- 386	10 pubescent
- 0	0 -
- 141	10000000 hirsute
- 106	100000010000 hairs,villous
- 1	10000000 ciliate
- 71	1000000000 glabrous
- 386	10 pubescent
- 386	10 pubescent
- 71	100000000000 glabrescent
- 392	10000000000 pubescent or glabrescent
- 141	10000000 hirsute
- 141	10000000 hirsute
- 386	10 pubescent
- 596	10000 villous
- 386	10 pubescent
- 0	0 -
- 0	0 -
- 71	1000000000 glabrous
- 71	100000010 glabrous,pubescent
- 71	1000000000 glabrous
- 71	100000010 glabrous,pubescent
- 141	10000000 hirsute
- 0	0 -
- 71	1000000000 glabrous
- 0	0 -
- 0	0 -
- 71	100000010 glabrous,pubescent
- 386	10 pubescent
- 386	10 pubescent
- 71	1000000000 glabrous
- 0	0 -
- 71	1000000000 glabrous
- 596	10000 villous
- 386	10 pubescent
- 71	10000001000 glabrescent,puberulent
- 396	1 pubescent or hirsute

/leaves/petiole/colour	•		/leaves/petiole/length
0	0		-
0	0		-
0	0	-	0.3-3 cm long
0	0	-	0.2-1.5 cm long
0	0	-	0.2-1 cm long
0	0	-	0.3-0.8 cm long
1705	1	red	0.1-0.5 cm long
0	0	-	to 0.3 cm long
0	0	-	0.5-1 cm long
0	0	-	1-5 cm long
0	0	-	0.5-1.5 cm long
0	0	-	3-11 cm long
0	0	-	0.5-1 cm long
1705	1000	reddish	0.5-2 cm long
0	0	-	1-7 cm long
0	0	-	0.2-0.6 cm long
782	101	green,red	1-6.5 cm long
0	0	-	to 0.5 cm long
0	0	-	to 0.3-2.5 cm long
0	0	-	0.25 cm long
0	0	-	to 20 cm long
0	0	-	0.2-1 cm long
0	0	-	0.1-0.5 cm long
0	0	-	0.1-0.4 cm long
0	0	-	1-1.5 cm long
0	0	-	0.1-0.5 cm long
0	0	-	up to 1 cm long
0	0	-	to 2 cm long
0	0	-	0.1-0.5 cm long
0	0	-	0.05-0.2 cm long
0	0	-	1.5-6 cm long
0	0	-	1.5-4.5 cm long
0	0	-	-
0	0	-	0.2-0.5 cm long
0	0	-	0.3-0.8 cm long
0	0	-	1-1.5 cm long
0	0	-	1.2-2.5 cm long
0	0	-	0.5-1 cm long
0	0	-	0.1-0.4 cm long
0	0	-	0.5-1 cm long
0	0	-	0.3-2 cm long
0	0	-	0.5-4 cm long
0	0	-	0.7-1.3 cm long
818	10	green or maroon	0.3-1.3 cm long
0	0	_	0.5 cm long
0	0	-	(0.2-)0.4-0.6 cm long
0	0	-	0.5-1 cm long
0	0	-	(0.2-)0.3-0.5 cm long
0	0	-	4-9 cm long
0	0	-	0-0.3 cm long
0	0	-	0.2-1.5 cm long
0	0		2-3.2 cm long
			•

0	0 -	ca. 1.5 cm long
1705	1000 reddish	0.2-1 cm long
0	0 -	0.2-1 cm long
1705	1000 reddish	0.5-0.5 cm long
0	0 -	1-2.2 cm long
0	0 -	0.5-1.2 cm long
0	0 -	1 mm long
0	0 -	0.3-0.7 cm long
0	0 -	1-2 cm long
0	0 -	0.5 cm long
0	0 -	0-0.4 cm long
0	0 -	1-3.2 cm long
0	0 -	0.7-1.5 cm long
0	0 -	1-3 cm long
0	0 -	0.5-1 cm long
0	0 -	0.5-1 cm long
0	0 -	1-2 cm long
0	0 -	0.5-1 cm long
0	0 -	2.5-4.5 cm long
0	0 -	0.3-2.5 cm long
0	0 -	4 cm long
0	0 -	0.4-0.8 cm long
0	0 -	1-2 cm long
791	10000 green to brown	3-7 cm long
0	0 -	0.5 cm long
0	0 -	8-20 cm long
0	0 -	(0.5-)1-4.5 cm long
0	0 -	0.4-1 cm long
0	0 -	0.5-2 cm long
0	0 -	1.5-2.5 cm long
285	100000 brown	0.3-0.7 cm long
0	0 -	1.5-2 cm long
0	0 -	3-12 cm long
0	0 -	0.3-2 cm long
0	0 -	0.3-0.6 cm long
0	0 -	ca. 0.5 cm long
0	0 -	to 1 cm long
0	0 -	0.1-0.7 cm long
0	0 -	0.3-0.5 cm long
		-

/leaves/petiole/length	/leaves/petiole/length/minimum	/leaves/petiole/length/maximum
-	-	-
-	0.3	3
-	0.2	
-	0.2	
-	0.3	
-	0.1	
-	-	0.3
-	0.5	
-	1 0.5	
_	3	
-	0.5	
-	0.5	
-	1	
-	0.2	
-	1	
-	-	0.5
- 0.21		3 0.3-2.5
0.25	0 -	20
-	0.2	
-	0.1	
-	0.1	
-	1	
-	0.1	0.5
-	-	1
-	-	2
-	0.1	
-	0.05	
-	1.5 1.5	
- -	-	- 4.5
-	0.2	0.5
-	0.3	0.8
-	1	1.5
-	1.2	
-	0.5	
-	0.1	
-	0.5	1
-	0.3 0.5	
_	0.7	
-	0.3	
0.9		-
-	0.4	
-	0.5	5 1
-	0.3	
-	4	
-	0	
-	0.2	
-	2	3.2

	Sheet1	
1.5 -	-	
-	0.2	1
-	0.3	0.5
-	0.5	1.5
-	1	2.2
-	0.5	1.2
1 -	-	
-	0.3	0.7
-	1	2
0.5 -	-	
-	0	0.4
-	1	3.2
-	0.7	1.5
-	1	3
-	0.5	1
-	0.5	1
-	1 0.5	2 1
-	2.5	4.5
_	0.3	2.5
4 -	-	2.5
-	0.4	0.8
-	1	2
-	3	7
0.5 -	-	
-	8	20
-	1	4.5
-	0.4	1
-	0.5	2
-	1.5	2.5
-	0.3	0.7
-	1.5	2
-	3	12
-	0.3	2
-	0.3	0.6
0.5 -	-	1
-	0.1	1 0.7
-	0.1 0.3	0.7 0.5
-	0.3	0.5

/leaves/veins

_

pinnately or palmately veined.

3-5-pli- or palmately veined.

palmately 3-veined.

palmately 3-veined.

palmately 3-5-veined.

obsoletely palmately 3-veined.

venation slightly obvious, palmately 3-veined.

venation obvious, pli- or palmately 3-5-veined.

venation obvious in dried state, veins 6-8 from base.

pinnately veined veins branching off in lower part of primary vein, may be obsolete when dried.

veins 9-11 arising from base.

pinnately 7-11-veined.

venation obsolete, 7-9-pli-veined.

venation obvious, ca. 7-pli-veined, or a few veins branching off primary vein or obsolete when dried.

veins 3. obvious

venation obvious or hardly visible, ca, 7-pli-veined, or few veins branching off primary vein.

venation obvious, palmately 3-veined.

palmately 5-7-veined.

venation pinnate with 4-5 lateral pairs of veins.

somewhat pli-veined with 2 pairs at base and 2-3 pairs from primary vein.

veins 3, obvious, often red below.

palmately 3-veined, veins impressed above, prominent beneath.

palmately 3-veined.

venation obvious in dried state, obsoletely palmately 5-7-veined.

distinctly palmately 3-veined.

obsolete palmately 3-veined.

venation obsoletely 3-5-veined.

obsoletely palmately 3-veined.

obsoletely palmately 3-veined.

palmately 5-7-veined (veins sometimes purple).

palmately 5-7-veined.

palmately or pinnately veined.

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pinnately veined, secondary veins 6-8 per side, arising from 1/2 to 3/4 of primary vein, sharply ascending, impressed above pinnately veined, secondary veins 4-6 per side, originating at a steep angle from 3/4 or more of primary vein, 2-3 lower or pinnately veined, secondary veins 7-10 per side, originating from throughout primary vein.

palmately 5-7-veined, tertiary venation obscure.

pinnately veined, secondary veins 6-10 per side, originating from throughout primary vein, plane above, prominulous belo pinnately veined, secondary veins 8-12 per side, originating from throughout primary vein, plane to impressed above, propinnately veined, secondary veins 8-10 per side, originating from throughout primary vein, loop-connected towards apex, pinnately veined, secondary veins 10-16 per side, strongly curved, originating from throughout primary vein.

pinnately veined, secondary veins 8-12 per side, prominent on both sides, anastomosing well within margin, originating from pinnately veined, secondary veins 5-6 per side, originating from lower 3/4 of primary vein.

pinnately veined, secondary veins 6-8 per side, flat to impressed above, prominent below, anastomosing well within marginnately veined, secondary veins 2-3 per side, originating from lower 1/2 or 2/3 of primary vein, with many intermediates pinnately veined, secondary veins 6-11 per side, originating from throughout primary vein, prominulous above, prominulous secondary veins 4-7 per side, originating from throughout primary vein, tertiary venation widely reticulate.

pinnately veined, secondary veins 5-8 per side, originating from lower 3/4 or more of primary vein, flat above and prominu pinnately veined, secondary veins 46 per side, originating from lower 1/2 of primary vein, flat above and below, tertiary veinnately veined, secondary veins 6-12 per side, originating from throughout primary vein, clearly anastomosing within mapinnately veined, secondary veins 4-7 per side, originating from lower 1/2 or lower 2/3 of primary vein, ascending at an analysis of the secondary veins 4-7 per side, originating from lower 1/2 or lower 2/3 of primary vein, ascending at an analysis of the secondary veins 4-7 per side, originating from lower 1/2 or lower 2/3 of primary vein, ascending at an analysis of the secondary veins 4-7 per side, originating from lower 1/2 or lower 2/3 of primary vein, ascending at an analysis of the secondary veins 4-7 per side, originating from lower 1/2 or lower 2/3 of primary vein, ascending at an analysis of the secondary veins 4-7 per side, originating from lower 1/2 or lower 2/3 of primary vein, ascending at an analysis of the secondary veins 4-7 per side, originating from lower 1/2 or lower 2/3 of primary vein, ascending at an analysis of the secondary veins 4-7 per side, originating from lower 1/2 or lower 2/3 of primary vein, ascending at an analysis of the secondary veins 4-7 per side, originating from lower 1/2 or lower 2/3 or

pinnately veined, secondary veins 4-5 per side, originating from lower 1/2 of primary vein, prominent below.

pinnately veined, secondary veins (4-)6-8 per side, originating from throughout primary vein, plane above, prominent below pinnately veined, secondary veins 8-11 per side, originating from throughout primary vein, flat to impressed above, promine pinnately veined, secondary veins 5-6 per side, originating from lower 1/2 of primary vein, tertiary veins transverse and parametely veined, secondary veins 4-6 per side, originating from lower 3/4 of primary vein, at a wide angle and abruptly curpinnately veined, secondary veins 4-8 per side, originating from lower 3/4 or 2/3 of primary vein, impressed above, tertiary pinnately veined, secondary veins 5-6 per side, originating from lower 3/4 of primary vein.

pinnately veined, secondary veins 8-15 per side, originating from throughout primary vein, plane above, slightly prominulo pinnately veined, secondary veins 5-6 per side, originating from throughout primary vein, plane or inconspicuous above, spinnately veined, secondary veins 5-7 per side, originating from throughout primary vein, prominent below, tertiary veins in pinnately veined, secondary veins 3-5 per side, originating from lower 1/3 of primary vein, impressed above, prominent be pinnately veined, secondary veins 5-7 per side, originating from lower 2/3 of primary vein, slightly impressed above, prominentely veined, secondary veins 4-5 per side, originating from lower 1/3 or more of primary vein, 2 originating from base pinnately veined, secondary veins 5-8 per side, originating from lower 2/3 of primary vein, flat above, prominent below, ter pinnately veined, secondary veins 5-6 per side, originating from lower 1/2 of primary vein, tertiary veins transversely reticular pinnately veined, secondary veins 3-6 per side, originating from lower 3/4 of primary vein, at an angle of 60°, anastomosing pinnately veined, secondary veins 3-5 per side, originating from lower 3/4 or more of primary vein, anastomosing, impressed pinnately veined, secondary veins 6-8 per side, originating from throughout primary vein, impressed above, prominent bell pinnately veined, secondary veins 5-6 per side, originating from lower 1/2 or 2/3 or more of primary vein, anastomosing pinnately veined, secondary veins 5-6 per side, originating from lower 1/2 or 2/3 of primary vein, plane above, prominulou palmately 9-11-veined.

pinnately veined, secondary veins 3-5 per side, anastomosing near margin, originating from lower 3/4 of primary vein, tert palmately-pinnately veined, secondary veins 2-3 per side, originating from lower 1/4 of primary vein, flat to prominulous all pinnately veined, secondary veins 5-9, per side originating from lower 3/4 of primary vein.

pinnately veined, secondary veins (7-)8-12 per side, originating from throughout primary vein, impressed above, prominul palmately 13-15-veined, veins radiating from petiole tip, and 2 pairs originating from central vein.

pinnately veined, secondary veins 6-7 per side, originating from lower 2/3 of primary vein, flat above, prominulous below, I pinnately veined, secondary veins 4-6 per side, originating from lower 2/3 of primary vein, flat above, prominulous below, I pinnately veined, secondary veins (5-)7-8 per side, originating from throughout primary vein, anastomosing well within ma palmately-pinnately veined, secondary veins 2-3 per side originating from lower 1/4 of primary vein, flat above, prominent pinnately veined, secondary veins 3-4, originating from lower 1/2 of primary vein, ascending at an angle of ca. 45°, flat to pinnately veined, secondary veins 5-7 per side, originating from lower 1/2 of primary vein, prominent below, tertiary venational palmately 5-7-veined, veins plane to impressed above, very prominent below, tertiary veins transverse.

pinnately veined, secondary veins 7-10 per side, originating from throughout primary vein, flat above, flat below, marginall pinnately veined, secondary veins 3-4 per side, originating from lower 1/2 to lower 2/3 of primary vein, ascending at an an pinnately veined, secondary veins ca. 5 per side, originating from lower 1/2 of primary vein, tertiary veins more or less par pinnately veined, secondary veins 4-7 per side, originating from lower 1/2 to 2/3 of primary vein, not anastomosing, imprespinnately veined, secondary veins 4-10, originating from throughout primary vein, anastomosing near margin.

pinnately veined, secondary veins 4-5 per side, originating from lower 2/3 of primary vein, not anastomosing, plane to imp

/leaves/veins	/leaves/veins/minimum	/leaves/veins/maximum	
-	-	-	0
-	-	-	0
-		3	5 0
	3 -	-	0
3	3 -	-	0
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	3 -	-	4306
3	3 -	- 2	4306
-			4306 3 4306
_			4306
-	-	9 11	
_		9 11 7 11	
_			9 4306
7	7 _	-	4306
	3 -	_	4306
	7 -	-	4306
	3 -	-	4306
-		5	7 0
_			5 0
_			3 0
3	3 -	- -	4306
	} -	-	0
	} -	-	0
-		5	
3	} -	-	0
	} -	-	4306
-		3 .	4306
3	3 -	-	4306
3	} -	-	4306
-			7 0
-		5	7 0
-	-	-	0
-	-	-	0
-			3 0
-			6 0
-		7 10	
-		5	
-		6 10	
-		8 12	
-		8 10	
-		0 16	
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-		6	3 3445 3 0
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-		6 11 4 7	
_			3445
46		J (3445
-		6 12	
_			7 4306
			7500

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-	6	8	0
-	8	11	3445
-	5	6	0
-	4	6	0
-	4	8	0
-	5	6	0
-	8	15	4306
-	5	6	0
-	5	7	0
-	3	5	0
-	5	7	0
-	4	5	4306
-	5	8	3445
-	5	6	0
-	3	6	0
-	3 3	5	0
-		8	0
-	6 5	6	0
-	4	6	493
-	9	11	0
-	3	5	0
-	2	3	3445
-	5	9	0
-	8	12	0
-	13	15	0
-	6	7	3445
-	4	6	3445
-	7	8	4306
-	2	3	3445
-	2 3	4	3445
-	5 5	7	0
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/leaves/veins/shape /leaves/veins/shape		
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100 flat	0	0
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100 flat	0	0
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100 flat	0	0
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10 ob	703	1
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100 flat	0	0
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100 flat	0	0
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/leaves/veins/hairs	/leaves/veins/hairs	/leaves/veins/hairs	/leaves/veins/colour /leaves/veins/co	olour
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Sheet1 /stems Stem ascending, Stem glabrous, |, green or reddish. Stem villous, often fuscous, green or reddish, Stem minutely hirtellous (spreading hairs Stem minutely pubescent to glabrous, |, green or green with red spots or reddish. Stem |, green or reddish, glabrous, except for lines of hairs decurrent from nodes. Stem glabrous, |, whitish green. Stem ascending. Stem |, retrorsely minutely crisp-pubescent, green and reddish. Stem glabrous, |, green or reddish. Stem glabrous, I, green or green with red nodes. Stem erect, creeping or ascending, rooting at nodes, |, glabrous, green or green with red spots. Stem loosely villous, J, green or reddish brown. Stem erect, creeping or ascending, rooting at nodes, glabrous, green or green with red spots. Stem loosely villous, I, green to reddish. Stem |, green often reddish tinged. Stem |, green. Stem glabrous, green. Stem glabrous to minutely pubescent (with white hairs, Persaud 52), I, reddish. Stem quadrangular, minutely pubescent, Stem erect to ascending, glabrous, J, green or reddish. Stem succulent, glossy, retrorsely crisp-pubescent, green with red spots or reddish. Stem sparsely pubescent. Stem crisp-pubescent when young, Stem minutely crisp-pubescent, Stem glabrous to somewhat minutely pubescent, fertile stems erect. Stem |, minutely pubescent, green. Stem |, green or red. Stem rooting at nodes, ascending, crisp-pubescent, glabrescent. Stems usually with swollen nodes. Stem sparsely pubescent to glabrescent; Stem glabrous or minutely pubescent on upper internodes. Stem retrorsely pubescent with swollen nodes. Stem glabrous except for 1 or 2 subnodal lines of hairs decurrent from petioles. Stem glabrous or minutely pubescent, upper internodes smooth or somewhat lenticellate. Stem striate or canaliculate, glabrous. Stem glabrous. Stem densely retrorsely pubescent with hairs Stem somewhat yellow-glandular, pilose, hairs

Stem densely pubescent.

Stem glabrous.

Stem glabrescent.

Stem pilose with hairs

Stem crisp-pubescent or sometimes appressed-pubescent.

Stem crisp-pubescent or scabrous.

Stem glabrous.

Stem densely hirsute.

Stem glabrous, densely dark glandular-dotted.

Stem glabrous.

Stem densely crisp- pubescent.

Stem pubescent.

Stem glabrescent.

Stem ribbed, glabrous, younger parts sparsely pubescent.

Stem long-hirsute, hairs

Stem hirsute to glabrescent.

Stem crisp-pubescent.

Stem villous often with white hairs.

Stem ridged, pubescent with recurved hairs.

Stem, petiole and peduncle and even primary vein below maybe reddish (brown), or yellowish, glabrous.

Stem glabrous, young ones often reddish.

Stem glabrous.

Stem densely pubescent to glabrescent.

Stem hirsute.

Stem glabrous.

Stem glabrous or glabrescent;

Stem densely retrorsely crisp-pubescent.

Stem and branches sparsely to densely pubescent.

Stem often with spines opposite petiole; |, nodes glandular-dotted.

Stem glabrous, glandular.

Stem glabrous or may be sparsely appressed-pubescent.

Stem retrorsely villous.

Stem crisp-pubescent.

Stem densely pubescent or hirsute, hairs often reddish brown (

/stems/shape		/stems/texture /stems/texture	
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2584	10 decurrent	0	0 -
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5659	1 quadrangular	0	0 -
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2584	10 decurrent	0	0 -
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/stems/hairs	/stems/hairs	/stems/hairs	/stems/growth form
0	0	-	0
0	0	-	0
0	0	-	0
71	1	glabrous	0
596	1000000000	villous	0
106	100000100	hairs,hirtellous	211
0	0	-	0
391	10	pubescent to glabrous	0
71		glabrous,hairs	0
71		glabrous	0
0		-	0
386	10000000000	pubescent	0
71		glabrous	0
71		glabrous	0
71		glabrous	22
	100000000	=	0
71		glabrous	22
	1000000000	•	0
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71	_	glabrous	0
		glabrous,hairs,pubescent	0
	10000000001	•	0
71		glabrous	43
	10000000000	=	0
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	10000000000	-	0
	10000000000	-	0
	10000000000	-	0
		glabrous,pubescent	43
	1000000000	•	0
0			0
		glabrescent,pubescent	0
0			0
0			0
		pubescent to glabrescent	0
0	_		0
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		glabrous,pubescent	0
	1000000000	-	0
71		glabrous,hairs	0
		glabrous,pubescent	0
0			0
71		glabrous	0
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71		glabrous	0
		hairs,pubescent	0
106		hairs,pilose	0
	10000000000	-	0
71		glabrous	0
0			0
71	10000000	glabrescent	0

0	0	-	0
106	100001000	hairs,pilose	0
386	10000000000	pubescent	0
386	10000000000	pubescent	0
71	1	glabrous	0
141	10000	hirsute	0
71	1	glabrous	0
0	0	- -	0
71	1	glabrous	0
386	10000000000	pubescent	0
386	10000000000	pubescent	0
71	10000000	glabrescent	0
71	1000000001	glabrous,pubescent	0
106		hairs,hirsute	0
146	1000000	hirsute to glabrescent	0
386	10000000000	pubescent	0
106	1100000000	hairs,villous	0
106	10100000000	hairs, pubescent	127
0	0		0
71	1	glabrous	0
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71	1	glabrous	0
71	1	glabrous	0
391	1.0000E+011	pubescent to glabrescent	0
141		hirsute	0
0	0	-	0
71	1	glabrous	0
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71	1	glabrous	0
0	0	-	0
386	10000000000	pubescent	0
386	10000000000	pubescent	0
0	0	-	0
71	1	glabrous	0
71	1000000001	glabrous,pubescent	0
596	1000000000	villous	0
386	10000000000	pubescent	0
0	0	-	0
106	10100110000	hairs,hirsute,pubescent,pubescent or hirsute	0

/stems/growth form /stems/growth form	/stems/colour	/stems/colour /stems/colour
0 -	0	0 -
0 -	0	0 -
0 -	0	0 -
0 -	830	1000000000 green or reddish
0 -	830	1000000000 green or reddish
100 spreading	0	0 -
0-	0	0 -
0 -	782	1001 green,red
0 -		1000000000 green or reddish
0 -	782	101000 green, whitish
0 -	0	0-
0 -	782	
0 -	830	1000000000 green or reddish
0 -	782	1001 green,red
11 creeping,erect	782	1001 green,red
0 -		10010001000 brown,green,green or reddish
11 creeping,erect	782	1001 green,red
0 -	829	100 green to reddish
0 -	782	
0 -	782	1000 green
0 -	782	1000 green
0 -	1705	1000 green 10000010 reddish,white
0 -	0	0 -
1 erect	830	10000000000 green or reddish
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0 - 0 -		1001 green,red 0 -
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1 erect	0	0 -
0 -	782	1000 green
0 -	830	1000000000 green or red
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0 -	2415	10 white	
1000 recurved	0	0 -	
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0 -	285	110010000 brown, reddish, yellowish	
0 -	0	0 -	
0 -	1705	100000000 reddish	
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30-100 cm long	-	30	
10-20 cm long	-	. 10	20
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10-80 cm long	-	10	
to 15 cm long	-	·	15
40 cm long	40) -	-
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10-34 cm long	-	10	
to 100 cm long	-	-	100
10-50 cm long	-	10	50
10 cm long when fruiting	10)-	-
-	-	-	-
3-8 cm long	-		8
10-30 cm long	-	10	
to 5 cm long	-	-	5
-	-	-	-
10-28 cm long	-	10	28
-	-	-	-
up to 25 cm long	-	-	25
-	-	-	-
-	-	-	-
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	-	-	-
to 25 cm long	-	-	25
10-20 cm long	-	10	20
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/habitat
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in forests,
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in non-flooded moist forest, creeping and forming loose mats along creeks on rocks, on the forest floor, or on fallen logs,
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in wet forest,
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in dense forest on sandstone, in savanna forest,
- -
- humid forgoto
humid forests -
in forests especially cloud forests
on granitic rocks
Weedy species in secondary vegetation, most species are found in the understory of various types of forest, in open space
in open or somewhat shady places. in forest or even in secondary vegetation, often on granitic outcrops; from understory of mixed forest (on slopes);
-
in primary forest,
in moist tropical rain forest high, dense, mixed or swamp forest, occasionally in secondary vegetation, often in humid places, also recorded from secondary vegetation, in lowland moist forest, in (dense) forest, in river-bank or marsh forest and in secondary vegetation. in forest on terra firme and in marsh forest, on sand, clay or granite,
in moiet forget, ewampy vogotation and etraam sides
in moist forest, swampy vegetation and stream sides,
understorey of primary forest or swampy forest, or open forest on laterite; riverine flood plain forest on white and brown sands, from mud in wet forest on granitic rocks, red clay or deep mud along

virgin forest, mossy cloud forest, forest on granite and from open places, in dense forest, montane forest, growing on brown sand with granite boulders or on sandstone in riverine forest, swamp forest, occasionally reported from regenerating forest. dense forest on brown sand, mainly from dense forest, or swampy places, in dense forest understorey, on edges of streams in savanna areas, in Brazil in dense forest on brown sand, in secondary vegetation, on creek banks in forest and in dense forest, often on rocks and in humid places in primary forest, in forest, dark, humid, primary forest or swamp forest, in forest in moist forest non-flooded moist forest, or along riverbanks in understorey of primary rainforest and from secondary vegetation in (dense) forest, recorded mainly from secondary vegetation, in clearings, damp places, open and mixed forest, shady rocky areas, mostly in dry areas. in primary forest, and occasionally from secondary vegetation,

/habitat/growth form /habitat/growth form			
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/habitat/colour	/habitat/altitude	/habitat/altitude	/habitat/altitude/minimum
-	-	-	-
-	- form 0 4- 1700	-	-
-	from 0 up to 1700 m	-	0
-	from 0 up to 2400 m	-	0
-	above 200 m, up to 1100 m	-	200
-	above 2000 m	-	2000
-	from 0 to 600 m	-	0
-	2250-2500 m, 2700 m	-	2250
-	from 0 up to 2400 m	-	0
-	between 150-500 m	-	150
-	200-700 m	-	200
-	500-2000 m	-	500
-	700-1600 m	-	700
-	from 0 to 1800 m	-	0
-	from 0 to over 1200 m	-	0
-	up to 700 m	-	-
-	from 0 to over 1200 m	-	0
-	from 0 to 850-1400 m	-	0
-	-	-	-
-	to 700 m	-	-
-	-	-	-
-	1120-2750 m	-	1120
-	up to 200 m	-	-
-	1000-2800 m	-	1000
-	300-1900 m	-	300
-	-	-	-
-	from 0 up to 1000 m	-	0
-	from 0 to 1200 m	-	0
-	high altitudes up to 1580 m	-	-
-	at higher altitudes	-	-
-	250-850 m	-	250
_	200-800-1200? m	_	200
_	from 0 to 2000 m	_	0
_	from 0 to 500 m	_	0
_	-	_	-
_	from 0 to 1500 m	_	0
_	to 750 m	_	-
_	from 0 to 1500 m	_	0
_	up to 500 m	_	_
_	-	_	_
_	from 0 to 1500 m	_	0
_	from 0 to 1500 m	_	0
_	200-450 m	_	200
-	200-430 111	-	200
-	- up to 700 m	-	-
_	up to 700 m 800-1100 m	_	800
-		-	800
-	up to 650 m	-	-
-	from 0 to 700 m	-	0
-	from 0 to 700 m	-	0
-	to 850 m	-	-
- Inner Control	up to 650 m	-	-
prown,red,white	e from 0 to 650 m	-	0

_	-	_	-	
_	up to 700 m	_	_	
brown	20-720 m	_		20
-	-	_	_	20
_	_	_	_	
brown	240 m		240 -	
-	up to 700 m	_	-	
_	up to 639 m	_	_	
_	600-1500 m	-		600
_	-	-	-	
_	up to 1200 m	-	-	
_	up to 900 m	_	-	
_	<u>.</u>	-	-	
brown	240-700 m	-		240
-	from 0 to 700 m	-		0
-	-	-	-	
-	up to 800 m	-	-	
-	-	-	-	
-	to 150 m	-	-	
-	from 0 to 700 m	-		0
-	-	-	-	
-	from 0 to 700 m	-		0
-	-	-	-	
-	from 0to 2000 m	-		0
-	up to 1600 m	-	-	
-	-	-	-	
-	500-1275 m	-		500
-	-	-	-	
-	up to 660 m	-	-	
-	10-600 m	-		10
-	to 260 m	-	-	
-	20-300 m	-		20
-	to 450 m	-	-	
-	-	-	-	
-	from 0 to 1600 m	-		0
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	from 0 to 600 m	-		0

/habitat/altitude/maximum			
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170	0		
240			
110			
-			
60	0		
250			
240			
50			
70	0		
200	0		
160	0		
180	0		
120	0		
70	0		
120	0		
850-1400			
-			
70	0		
-			
275			
20			
280			
190	0		
-			
100			
120			
158	U		
- 85	0		
80			
200			
50			
-	0		
150	0		
75			
150			
50			
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150	0		
150			
45			
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70	0		
110	0		
65			
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650