

Appendix 1. List of tree species, their reproductive traits and their pollinators in Kakachi forest

Pollinator groups	Family	Habit	Anthesis	Sexual system	Colour	Shape	Reproduct. phenology	Observation intensity	No. of pollinators
SPECIALISTS									
Bat/mammal									
<i>Cullenia exarillata</i> Robyns.	Bombacaceae	C	DN	H	Cream	Tub	A	P	6
<i>Helicia nilagirica</i> Bedd.	Proteaceae	U	N	H	White	Br	NA	P	1
<i>Syzygium mundagam</i> (Bourd.) Chithra	Myrtaceae	U	N	H	White	Br	NA	P	1
Social bee									
<i>Actinodaphne bourdillonii</i> Gamble	Lauraceae	U	D	Di	Cream	Br	NA	P	2
<i>Calophyllum austroindicum</i> Kosterm.ex Stevens	Guttiferae	C	D	H	Cream	Cup	NA	P	2
<i>Elaeocarpus munronii</i> (Wight) Mast.	Elaeocarpaceae	G	D	H	White	Cup	A	P	2
<i>Elaeocarpus venustus</i> Bedd.	Elaeocarpaceae	G	D	H	White	Cup	A	P	2
<i>Eugenia thwaitesii</i> Duthie	Myrtaceae	U	N	H	White	Br	NA	P	1
<i>Isonandra lanceolata</i> wight	Sapotaceae	U	D	H	Cream	Tub	NA	P	1
<i>Litsea glabrata</i> (Wall. ex Nees) Hook.f.	Lauraceae	C	D	Di	Cream	Br	NA	P	2
<i>Litsea insignis</i> Gamble	Lauraceae	C	D	Di	Cream	Br	NA	P	2
<i>Litsea wightiana</i> (Nees) Hook f.	Lauraceae	G	D	Di	Cream	Br	A	P	2
<i>Neolitsea cassia</i> (L.) Kosterm.	Lauraceae	G	D	Di	White	Br	A	P	1
<i>Neolitsea fischeri</i> Gamble	Lauraceae	C	D	Di	White	Br	NA	P	2
<i>Palaquium bourdillonii</i> Brandis	Sapotaceae	C	N	H	Cream	Tub	NA	P	2
<i>Palaquium ellipticum</i> (Dalz.) Baillon	Sapotaceae	C	D	H	Cream	Tub	A	P	2
<i>Prunus ceylanica</i> (Wight) Miq.	Rosaceae	C	D	H	White	Br	NA	P	2
<i>Symplocos cochinchinesis</i> (Lour.) Moore	Symplocaceae	G	D	H	White	Br	A	P	2
<i>Tricalysia apiocarpa</i> (Dalz.) Gamble	Rubiaceae	C	N	H	Cream	Tub	NA	P	1

Beetle

<i>Agrostistachys borneensis</i> Becc.	Euphorbiaceae	U	D	Di	White	Br	NA	P	4
<i>Antidesma menasu</i> (Tul.) Miq.ex Muell.-Arg.	Euphorbiaceae	U	D	Di	Yellow	Br	A	P	4
<i>Dimocarpus longan</i> Lour.	Sapindaceae	C	N	H	White	Cup	NA	B	4
<i>Diospyros malabarica</i> (Desr.) Kostel.	Ebenaceae	C	N	H	White	Cup	NA	P	5
<i>Diospyros sylvatica</i> Roxb.	Ebenaceae	C	N	Di	White	Cup	NA	P	5
<i>Excoecaria crenulata</i> Wight	Euphorbiaceae	U	D	Di	Green	Br	A	P	3
<i>Garcinia echinocarpa</i> Thw.	Guttiferae	C	N	Di	White	Cup	A	B	4
<i>Garcinia travancorica</i> Bedd.	Guttiferae	C	N	Di	White	Cup	A	B	4
<i>Goniothalamus wightii</i> Hook.f. & Thoms.	Annonaceae	U	N	H	Green	Chamb	A	P	3
<i>Hydnocarpus alpina</i> Wight	Flacourtiaceae	C	N	H	White	Open	NA	B	4
<i>Meiogyne pannosa</i> (Dalz.) Sinclair	Annonaceae	U	N	H	Yellow	Chamb	A	B	3
<i>Michelia nilagirica</i> Zenk.	Magnoliaceae	C	N	H	White	Open	NA	B	5
<i>Milusa wightiana</i> Hook.f. & Thoms.	Annonaceae	U	N	H	Red	Chamb	A	P	3
<i>Syzygium tamilnadensis</i> Rathakr.& Chithra	Myrtaceae	G	D	H	White	Br	NA	P	>5
<i>Ternstroemia japonica</i> (Thunb.)Thunb.	Theaceae	C	N	Di	Yellow	Open	A	B	>5

Butterfly

<i>Callicarpa tomentosa</i> (L.) Murr.	Verbenaceae	U	D	H	Purple	Br	A	P	4
<i>Clerodendrum viscosum</i> Vent.	Verbenaceae	U	D	H	White	Tub	A	P	4
<i>Trichilia connaroides</i> (Wight & Arn.) Benvelz	Meliaceae	G	D	H	White	Cup	A	P	4
<i>Vernonia travancorica</i> Hook. f.	Compositae	U	D	H	Purple	Br	A	P	3

Moth

<i>Artocarpus heterophyllus</i> Lam.	Moraceae	C	N	M	Green	Naked	A	P	3
<i>Canthium travancoricum</i> (Bedd.) Hook.f.	Rubiaceae	C	N	H	White	Tub	NA	B	2
<i>Elaeocarpus tuberculatus</i> Roxb.	Elaeocarpaceae	C	N	H	White	Cup	NA	P	>5
<i>Heritiera papilio</i> Bedd.	Sterculiaceae	C	N	H	White	Cup	NA	B	3
<i>Ixora nigricans</i> R.Br. ex Wight & Arn.	Rubiaceae	U	N	H	White	Tub	A	B	2
<i>Myristica dactyloides</i> Gaertn.	Myristicaceae	C	N	Di	Brown	Cup	A	P	4
<i>Pavetta thomsonii</i> Bremek	Rubiaceae	U	N	H	White	Tub	A	B	2

<i>Symplocos pendula</i> Wight	Symplocaceae	U	N	H	White	Tub	NA	B	3
<i>Viburnum punctatum</i> Buch.-Ham. ex D.Don	Caprifoliaceae	U	N	H	White	Tub	A	B	3

Diptera

<i>Cryptocarya lawsonii</i> Gamble	Lauraceae	C	D	H	Yellow		NA	P	1
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Bug

<i>Cinnamomum travancoricum</i> Gamble	Lauraceae	C	D	H	Green	cup	NA	Ch	4
<i>Drypetes longifolia</i> (Blume) Pax & Hoffm.	Euphorbiaceae	U	D	Di	White	open	NA	B	4
<i>Elaeocarpus serratus</i> L.	Elaeocarpaceae	G	D	H	White	cup	A	P	>5
<i>Nothopodytes nimmoniana</i> (Graham.) Mabberley	Icacinaceae	G	D	H	Yellow	open	NA	B	>5
<i>Syzygium gardneri</i> Thw.	Myrtaceae	U	D	H	White	Br	NA	P	2
<i>Euphorbia antiquorum</i> L.	Euphorbiaceae	G	D	H	White	cup	A	P	4

Thrip

<i>Aglaia tamilnadensis</i> Nair & Rajan	Meliaceae	C	N	Di	White	cup	NA	B	?
<i>Aglaia bourdillonii</i> Gamble.	Meliaceae	C	N	Di	White	cup	NA	B	?
<i>Cinnamomum sulphuratum</i> Nees	Lauraceae	U	N	H	Green	cup	A	B	?
<i>Cinnamomum filipedicellatum</i> Kosterm.	Lauraceae	C	N	H	Green	cup	NA	B	?

Wasp

<i>Ficus microcarpa</i> L.	Moraceae	C		M			A	P	
<i>Ficus virens</i> Ait.	Moraceae	U		M			?	P	

Wind

<i>Daphniphyllum neilghrrense</i> (Wight) K.Rosent	Daphniphyllaceae	G	D	Di	White	Br	NA	P	
<i>Epiprinus mallotiformis</i> (Muell.-Arg.) Croiz	Euphorbiaceae	U	D	M	Green	Br	A	P	
<i>Macaranga peltata</i> (Roxb.) Muell.-Arg.	Euphorbiaceae	G	D	Di	Green	Br	A	P	
<i>Mallotus resinusus</i> (Blanco) Merr.	Euphorbiaceae	U	D	Di	Yellow	Br	NA	B	
<i>Mallotus tetraococcus</i> (Roxb.) Kurz	Euphorbiaceae	G	D	Di	Yellow	Br	A	P	

GENERALISTS

Small insects

<i>Actinodaphne campanulata</i> Hook.f.	Lauraceae	U	D	Di	White	Br	NA	Ch	4
<i>Beilschmiedia wightii</i> (Nees) Benth.	Lauraceae	C	D	H	White		A	Ch	3
<i>Casearia esculenta</i> Roxb.	Flacourtiaceae	C	D	H	White	Open	NA	Ch	3
<i>Gomphandra coriacea</i> Wight	Icacinaceae	U	D	Di	White	cup	A	B	3
<i>Gomphia serrata</i> (Gaetrn.) Kanis	Ochnaceae	U	D	H	Yellow	Open	NA	Ch	3
<i>Litsea mysorensis</i> Gamble	Lauraceae	U	D	Di	White	Br	NA	B	3
<i>Maesa indica</i> (Roxb.) DC.	Sapindaceae	G	D	H	White	cup	A	P	4
<i>Mastixia arborea</i> (Wight) Bedd.	Cornaceae	C	D	H	White		NA	B	3
<i>Memecylon malabaricum</i> (Clarke) Cogn.	Melastomaceae	C	D	H	White		NA	P	4
<i>Octotropis travancorica</i> Bedd.	Rubiaceae	U	D	H	White	cup	A	Ch	3
<i>Phoebe lanceolata</i> Nees	Lauraceae	U	D	H	White	Open	NA	Ch	3
<i>Rapanea wightiana</i> (Wall. ex DC) Mez	Myrsinaceae	U	D	H	White	Open	A	Ch	3
<i>Vepris bilocularis</i> (Wight & Arn.) Engler	Rutaceae	C	D	H	White	Open	NA	Ch	3

Large insects

<i>Acronychia pedunculata</i> (L.) Miq.	Rutaceae	G	D	H	Cream	Open	A	P	3
<i>Canarium strictum</i> Roxb.	Burseraceae	C	D	Di	White	Open	NA	P	3
<i>Gordonia obtusa</i> Wall. ex Wight & Arn.	Theaceae	G	D	H	Cream	Open	A	P	4
<i>Holigarna nigra</i> Bourd.	Anacardiaceae	C	D	Di	White	cup	NA	P	4
<i>Ormosia travancorica</i> Bedd.	Papilionaceae	C	D	H	White	Pap	A	P	4
<i>Persea macrantha</i> (Nees) Kosterm.	Lauraceae	G	D	H	White	Open	A	P	4
<i>Scolopia crenata</i> (Wight & Arn.) Clos	Flacourtiaceae	C	D	H	White	cup	A	P	4
<i>Syzygium densiflorum</i> Wall. ex Wight & Arn.	Myrtaceae	U	D	H	White	Br	NA	P	>5

C = canopy, U = understorey, G = gap, D = day, N = Nocturnal, H = hermaphrodite, M = Monoecious, Di = dioecious,

A = annual, N = non-annual, P = prolonged, B = brief, Ch = chance

Br = brush, Pap = papilinous, Tub = tubular, Cham = chamber