

**Supplementary material Table 1 – Species descriptions.**

Descriptions of the sixteen dipterocarp species planted in the Sabah Biodiversity Experiment: species names and authorities, taxonomic group (Ashton 1982; Kamiya et al. 2005), timber colour group (Symington 1943; Ashton 1982), ecology (Ashton 1982), and their IUCN Red List status (downloaded on 2<sup>nd</sup> December 2014 from [www.iucnredlist.org](http://www.iucnredlist.org)).

Species name	Species code	Taxonomic group	Timber group	Ecology	IUCN Red List
<i>Dipterocarpus conformis</i> Slooten	DC	Sister to Shoreae	–	Rare, hill dipterocarp forest, clay-rich soils, < 800 m	–
<i>Dryobalanops lanceolata</i> Burck	DL	Shoreae	–	Widespread on fertile soils, abundant on undulating land, to 700 m	Endangered
<i>Hopea ferruginea</i> Parij	HF	Shoreae	–		Critically endangered
<i>Hopea sangal</i> Korth.	HS	Shoreae	–	Often on or near river banks in low country and to 500 m	Critically endangered
<i>Parashorea malaanonan</i> (Blanco) Merr.	PM	Shoreae	–	Local on clay-rich soil, rarely on riverbanks, on ridges in mountains to 1350 m	Critically endangered
<i>Parashorea tomentella</i> (Blanco) Merr.	PT	Shoreae	–	Common on flat to rolling hills < 200 m	–
<i>Shorea argentifolia</i> Sym.	SA	Shoreae > Shorea > Mutica sect. > Mutica subsect.	Red Meranti	Locally frequent on ridges, hillsides, and valleys, < 600 m	Endangered
<i>Shorea beccariana</i> Bruck	SB	Shoreae > Shorea > Pachycarpae sect.	Red Meranti	Common, lowlands, and dry ridges to 1350 m	–
<i>Shorea faguetiana</i> Heim.	SF	Shoreae > Shorea > Richetioides sect. >	Yellow Meranti	Low hills and particularly ridge tops at 150–700 m, occasionally to 1000 m	Endangered

		Richetioides subsect.			
<i>Shorea gibbosa</i> Brandis.	SG	Shoreae > Shorea > Richetioides sect.	Yellow Meranti	Locally common on fertile clay-loam soils on undulating land and river banks to 650 m	Critically endangered
<i>Shorea johorensis</i> Foxw.	SJ	Shoreae > Shorea > Brachypterae sect.	Red Meranti	Very common on well-drained fertile soils < 600 m	Critically endangered
<i>Shorea leprosula</i> Miq.	SL	Shoreae > Shorea > Mutica sect. >  Mutica subsect.	Red Meranti	Widespread, fast-growing emergent, common < 700 m	Endangered
<i>Shorea macrophylla</i> Ashton	SM1	Shoreae > Shorea > Pachycarpae sect.	Red Meranti	Locally abundant on periodically flooded alluvium, rarer on hillsides, < 600 m	Vulnerable
<i>Shorea macroptera</i> King	SM2	Shoreae > Shorea > Mutica sect. >  Auriculatae subsect.	Red Meranti	Common, sandy clay soils on low hills to 600 m	–
<i>Shorea ovalis</i> Korth.	SO	Shoreae > Shorea >  Ovalis sect.	Red Meranti	Scattered, usually in moist places in valleys and low-lying ground, occasionally ultrabasics, to 500 m	–
<i>Shorea parvifolia</i> Dyer	SP	Shoreae > Shorea > Mutica sect. > Mutica subsect.	Red Meranti	Perhaps the commonest dipterocarp, on clay soils on hills < 800 m	–

---