**Appendix S2 – Tree species list for Zomba and Machinga districts, southern Malawi, and associated growth rates.**

**Methodology**

A three stage approach was used to determine the growth rates and scientific names of plants from vernacular names (Table S1):

(1) Initially local forestry experts (e.g. from the Forestry Institute of Malawi; FRIM) translated from vernacular (primarily Chichewa, Yao and English) to scientific names;

(2) Any vernacular names remaining unidentified by step 1 were then researched using literature available in the archives of Kew Royal Botanical Gardens;

(3) An online literature search was undertaken by entering any vernacular names remaining unidentified by step 2 (e.g. Mpindimbi) into ISI Web of Knowledge Google Scholar ScienceDirect and Google between 5th September 2013 - 13th February 2014.

**Table S1**. List and translation of species encountered during plot samples within the four villages; brackets denotes multiple spellings.

|  |  |  |  |
| --- | --- | --- | --- |
| **Vernacular name** | **Latin name** | **Growth rate** | **References** |
| Accacia | *Acacia albida* | Fast | Binns 1972; Williamson 1975. |
| Apple | *Malus pumila* | Fast | Binns 1972; Williamson 1975; E Mbingwani 2013 pers.comm. 5 Sept. |
| Avocado pear | *Persea americana* | Slow | Binns 1972; Williamson 1975. |
| Blue Gum | *Eucalyptus camaldulensis* | Fast | Williamson 1975; E Mbingwani 2013 pers.comm. 5 Sept. |
| Cassia | *Cassia sp.* | Fast | Binns 1972. |
| Chidima | *Psorospermum febrifugum* | Slow | Morris 1996; Burrows & Willis 2005. |
| Chinama | *Combretum collinum*  | Fast | Binns 1972; E Mbingwani 2013 pers.comm. 5 Sept. |
| Chipisyawago | *Dichrostachys cinerea* | Slow | Binns 1972; Williamson 1975; Morris 1996; Keay 1989. |
| Chiputsa | *Fagaropsis sp.* | Fast | E Mbingwani 2013 pers.comm. 5 Sept. |
| Chitimbe | *Piliostigma thonningii* | Medium | Kaey 1964; Morris 1996; Burrows & Willis 2005;  |
| Chitimbi | *Piliostigma thonningii* | Medium | Binns 1972; Morris 2008 |
| Guava | *Psidium guajava* | Slow | Binns 1972; Williamson 1975; E Mbingwani 2013 pers.comm. 5 Sept. |
| India (Indoya / Indya) | *Melia azedarach* | Fast | Binns 1972; Pedersen et al. 2005; Nordin & Nordin 2005; Mauambeta et al. 2010. |
| Jatrova | *Jatropha curcas* | Fast | BERL 2012; E Mbingwani 2013 pers.comm. 5 Sept. |
| Kakalesi | Unknown | Fast |   |
| Keshya (Kesha/ Keysha) | *Senna siamea* **Synonym***: Cassia siamea. / Senna spectabilis* **Synonym:***Cassia spectabilis.*  | Fast | PLUS 1998; MDA 2009; Brummitt et al. 2007; M Likoswe 2013 pers. Comm. 11 July. |
| Lemon | *Citrus limonia* | Medium | Binns 1972; Williamson 1975 |
| Limbo | *Diplorhynchus condylocarpon* | Slow | Binns 1972 |
| Lonjemange | Unknown | Slow |   |
| Lungano | *Erythroxylum emarginatum* | Medium | Keay 1989; E Mbingwani 2013 pers.comm. 5 Sept. |
| Luzi | *Brachystegia utilis* | Medium | Murray 1922; Gowela et al. 2005; E Mbingwani 2013 pers.comm. 5 Sept.;  |
| Malaena | *Gmelina arborea*  | Fast | E Mbingwani 2013 pers.comm. 5 Sept. |
| Malayina | *Gmelina arborea* | Fast | E Mbingwani 2013 pers.comm. 5 Sept.; MDA 2009 |
| Maluwa | Unknown | Slow |   |
| Mango | *Mangifera indica* | Slow | Binns 1972; Williamson 1975 |
| Masau | *Ziziphus mauritiana* | Fast | Nyanga et al. 2013 |
| Masuku | *Uapaca kirkiana* | Slow | Williamson 1975; PLUS 1998. |
| Masula | Unknown | Unknown |   |
| Matamone | *Diplorhynchus condylocarpon* | Slow | E Mbingwani 2013 pers.comm. 5 Sept. |
| Matow(o) |  *Azanza garkeana* **Synonym:***Thespesia garckeana F. Hoffm.* | Medium | PLUS 1998; M Likoswe 2013 pers. Comm. 11 July. |
| Maula | *Parinari curatellifolia* | Slow | Binns 1972; Williamson 1975; PLUS 1998; Morris 1996; E Mbingwani 2013 pers.comm. 5 Sept. |
| Mauwla | Unknown | Unknown |   |
| Mawola | Unknown | Unknown |   |
| Mbawa | *Khaya anthotheca* | Medium | Murray 1922; MDA 2009; M Likoswe 2013 pers. Comm. 11 July. |
| Mbele | Unknown | Medium |   |
| Mbewe | *Ozoroa reticulata* | Medium | Binns 1972; Williamson 1975; Keay 1989; Kanthungo 2007 |
| Mbindi | *Vitex doniana* | Fast | E Mbingwani 2013 pers.comm. 5 Sept. |
| Mbulukututu | *Vangueria infausta* | Medium | PLUS 1998; E Mbingwani 2013 pers.comm. 5 Sept. |
| Mchenga | *Julbernardia globiflora* | Medium | Binns 1972; PLUS 1998; Dondeyne 2004. |
| Miombo | *Brachystegia sp.* | Fast | Williamson 1975; E Mbingwani 2013 pers.comm. 5 Sept. |
| Mkalati | *Burkea africana* | Medium | Williamson 1975; UNFAO 2005. |
| Mkokona-Scimba | *Stereospermum kunthianum* | Fast | Murray 1922; Dondeyne 2004. |
| Mkarti | Unknown | Slow | E Mbingwani 2013 pers.comm. 5 Sept. |
| Mkrati | *Ozoroa insignis* | Slow | Chettleborough et al. 2000. |
| Mlima | *Vangueria infausta* | Slow | E Mbingwani 2013 pers.comm. 5 Sept. |
| Mlonga | *Acacia polyacantha Willd.* | Fast | Binns 1972; Williamson 1975; Keay 1989. |
| Mlundo | *Dalbergiella nyasae* | Fast | Williamson 1975; Kanthungo 2007 |
| Mlungwe | *Dalbergia nitidula* | Slow | Binns 1972; Williamson 1975. |
| Mmbewe | *Markhamia obtusifolia* | Medium | E Mbingwani 2013 pers.comm. 5 Sept. |
| Mombo | *Brachystegia boehmii*  | Fast | Williamson 197; PLUS 1998; Kanthungo 2007. |
| Mpapa | *Brachystegia spiciformis*  | Fast | Binns 1972; UNFAO 2005; Kanthungo 2007. |
| Mpindimbi | *Vitex doniana* | Unknown | Williamson 1975; Binns 1972; E Mbingwani 2013 pers.comm. 5 Sept.; Dondeyne 2004 |
| Mpoloni | *Steganotaenia araliacea* | Fast | Keay 1989; PLUS 1998; UNFAO 2005. |
| Mposa (Mpoza) | *Annona senegalensis* | Fast | Williamson 1975; Binns 1972; Kanthungo 2007 |
| Msangwa | *Kigelia africana* | Slow | Neuwinger 1994 |
| Msangwi | Unknown | Slow |   |
| Msasi | *Ricinus communis* | Fast | E Mbingwani 2013 pers.comm. 5 Sept. |
| Msolo | *Pseudolachnostylis maprouneifolia* | Medium | UNFAO 2005 |
| Msora | *Rawsonia usambarens* **Synonym:***Rawsonia lucida Harv. & Sond.* | Fast |  E Mbingwani 2013 pers.comm. 5 Sept. |
| Msuku/masuku | *Uapaca kirkiana* | Slow | Murray 1922; Williamson 1975 |
| Mtanga(m)tanga | *Albizia lebbeck* | Fast | Murray 1922; Binns 1972; Mauambeta et al. 2010. |
| Mtewelere | *Cassia petersiana*  | Unknown | Binns 1972 |
| Mtomoni | *Diplorhynchus condylocarpon* | Medium | Williamson 1975; Dondeyne 2004 |
| Mtongongou | Unknown | Unknown |   |
| Mtundu | *Ficus capensis* | Fast | Williamson 1975 |
| Mtwana | *Brachystegia busse* | Fast | Burrows & Willis 2005 |
| Muliri | Unknown | Unknown |   |
| Mulmbua | Unknown | Unknown |   |
| Mulombwa | *Pterocapus angolensis* | Unknown | E Mbingwani 2013 pers.comm. 5 Sept.; Murray 1922 |
| Mvula | *Isoberlinia angolens* | Fast | Binns 1972; E Mbingwani 2013 pers.comm. 5 Sept. |
| Mvunguti | *Kigelia africana* | Slow | Williamson 1975 |
| Mwanga | *Pericopsis angolensis* | Slow | Williamson 1975 |
| Mwlonge | Unknown | Unknown |   |
| Mwolo | Unknown | Unknown |   |
| Naphini | *Terminalia sericea* | Fast | Murray 1922; Binns 1972; M Likoswe 2013 pers. Comm. 11 July.;  |
| Nchenga | *Brachystegia sp.* | Fast | Murray 1922 |
| Ndhundu | Unknown | Fast |   |
| Nesela | *Antidesma venosum* | Unknown |  E Mbingwani 2013 pers.comm. 5 Sept |
| Npini | *Terminalia sericea* | Unknown |  Burrows & Willis 2005; E Mbingwani 2013 pers.comm. 5 Sept;  |
| Nsachera | Unknown | Slow |   |
| Nsangwa | Unknown | Unknown |   |
| Nsolo | *Choristylis rhamnoides* | Fast | Binns 1972; E Mbingwani 2013 pers.comm. 5 Sept. |
| Nsondoka | *Ziziphus mauritiana* **Synonym***: Ziziphus abyssinica Hochst)* | Fast | Keay 1989; E Mbingwani 2013 pers.comm. 5 Sept. |
| Nsopa | *Bridelia micrantha* | Fast | Keay 1989; Binns 2004; E Mbingwani 2013 pers.comm. 5 Sept. |
| Ntandanyerere | *Byrsocarpus orientalis* **Synonym:***Rourea orientalis Baill* | Fast | Binns 1972; Williamson 1975; PLUS 1998. |
| Ntate | Unknown | Slow |   |
| Ntatu | *Allophylus africanus* | Slow | Keay 1989 |
| Ntawa | *Flacourtia indica*  | Slow | Binns 1972 |
| Ntewelewe | *Cassia singueana* | Slow | Binns 1972; Williamson 1975. |
| Ntewerere | Unknown | Slow |   |
| Nthanga | Unknown | Unknown |   |
| Nthema | Unknown | Medium | E Mbingwani 2013 pers.comm. 5 Sept. |
| Ntondu | Unknown | Unknown |   |
| Ntonongoli | *Vitex mombassae* | Fast | Binns 1972; PLUS 1998. |
| Ntothwa | Unknown | Fast |   |
| Ntoto | *Isoberlinia tomentosa* | Fast | E Mbingwani 2013 pers.comm. 5 Sept. |
| Nyenye | *Newtonia hildebrandtii* | Slow | Morris 1996. |
| Nyowe | *Syzigium cordatum* | Fast | Binns 1972; Williamson 1975; E Mbingwani 2013 pers.comm. 5 Sept.  |
| Nziru | Unknown | Fast |   |
| Orange | *Citrus sinensis* | Medium | Binns 1972; Williamson 1975. |
| Papaya | *Carica papaya* | Fast | Keay 1989; Binns 1972; E Mbingwani 2013 pers.comm. 5 Sept. |
| Peach | *Prunus persica* | Fast | Binns 1972; Williamson 1975; E Mbingwani 2013 pers.comm. 5 Sept. |
| Phikiwamaungu | Unknown | Unknown |   |
| Pine | *Pinus sp.* | Fast | Williamson 1975. |
| Sambafumu | *Afzelia quanzensis* | Medium | Burrows & Willis 2005; MDA 2009; E Mbingwani 2013 pers.comm. 5 Sept.  |
| Sechela | Unknown | Fast |   |
| Sendelener | Unknown | Unknown |   |
| Sendelera/sendelere/sendereya | *Toona ciliata* | Medium | Williamson 1975; Keay 1989; E Mbingwani 2013 pers.comm. 5 Sept. |
| Sukachuma | Unknown | Slow |   |
| Taida | *Pine sp.* | Fast |   |
| Tandanyerere | *Phyllanthus guineensis* **Synonym:***Phyllanthus ovalifolius Forssk.* | Slow | Binns 1972; UPM 1975;E Mbingwani 2013 pers.comm. 5 Sept. |
| Tangarine | *Citrus reticulata Blanco* | Fast |  |
| Thombozi | *Diplorhynchus condylocarpon* | Slow | Binns 1972; UNFAO 2005; Morris 2009. |
| Uwaowa | *Monotes africanus* | Slow | Morris 1996. |
| Wuwa wuwa | Unknown | Slow |   |

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