

Supplementary TABLE 1 | Environmental and trial design information of the study population. The number of families and their pedigree generations are indicated with the phenotyped and genotyped individuals.

		Nyalazi	Kwambonambi	Mtunzini
Site environment	Latitude (South)	28° 12' 32.01" S	28° 38' 56.43" S	29° 1' 52.11" S
	Longitude (East)	32° 20' 42.79" E	32° 9' 13.81" E	31° 39' 23.73" E
	Altitude (m)	47	63	69
	^a MAP (mm)	999	1196	1220
	^b MAT (C)	21	21	21
	MAT min. (C)	12	11	11
	MAT max. (C)	30	29	28
Distance (km)	Nyalazi		50	112
	Kwambonambi			66
Trial design	Progeny type	Half-sib	Half-sib	Half-sib
	Trial design	RCB	RCB	RCB
	Replications	15	15	15
	Plot design	Single-tree plot	Single-tree plot	Single-tree plot
Pedigree	<i>Unrelated families</i>	33	33	31
	<i>2nd Gen families</i>	2	2	
	<i>3rd Gen families</i>	32	32	30
	<i>4th Gen families</i>	28	28	28
	Total families	95	95	89
	Number of trees	1890	1830	1680
	Survival (%)	Diameter (4yrs)	68	59
	<i>BotryoTera</i> (3yrs)	83	66	68
	<i>Lepto</i> (1.5yrs)	89	80	78
Phenotyped individuals (n)	Diameter	1290	1074	970
	<i>BotryoTera</i>	1573	1216	1144
	<i>Lepto</i>	1687	1465	1311
Genotyped individuals (n)	Diameter	246	291	278
	<i>BotryoTera</i>	321	325	318
	<i>Lepto</i>	340	358	353

^aMAP – mean annual precipitation

^bMAT – mean annual temperature