

**Table 5 - Seed Requirements per Hectare for Open Plantation**

Species		No. of Seed per Kg	Planting Spacing (m x m)	Net Seedlings Required per Hectare	In Planting Site	Rate of Loss		Germ in ation Rate (%)	Seed Requirements		Purity (%)	Total Seed requirement (kg)
Scientific name	Local name					In Transit	At the Nursery		No of Seeds Needed	Weight of Seed Required (kg)		
<i>Acacia auriculiformis</i>	Acacia sleuktauch	30 000	2x2	2 500	20% (3 000)	10% (3 334)	20% (4 168)	60	6 947	0.24	90	0.27
<i>Azelia xylocarpa</i>	Beng	100	4x4	625	20% (750)	10% (834)	20% (1 043)	80	1 304	13.04	90	14.49
<i>Albizia lebbeck</i>	Chraiss	9 000	3x3	1 112	20% (1 335)	10% (1 484)	20% (1 855)	70	2 650	0.30	95	0.32
<i>Aquilaria crassna</i>	Chann crassna	4 000	2.5x2.5	1 600	20% (1 920)	10% (2 134)	20% (2 668)	60	4 447	1.12	95	1.18
<i>Azadirachta indica</i>	Sdaov	2 000	2.5x2.5	1 600	20% (1 920)	10% (2 134)	20% (2 668)	80	3 335	1.67	95	1.76
<i>Cassia garettiana</i>	Hai san	25 000	2.5x2.5	1 600	20% (1 920)	10% (2 134)	20% (2 668)	50	5 336	0.22	95	0.24
<i>Cassia fistola</i>	Loeung Reach	7 000	2.5x2.5	1 600	20% (1 920)	10% (2 134)	20% (2 668)	40	6 670	0.96	95	1.01
<i>Cassia siamea</i>	Ang Kanh	40 000	2x2	2 500	20% (3 000)	10% (3 334)	20% (4 168)	40	10 420	0.26	95	0.28
<i>Carypha umbraculifera</i>	Trang	100	2x2	2 500	20% (3 000)	10% (3 334)	20% (4 168)	60	6 947	69.47	95	73.13
<i>Dalbergia bariensis</i>	Neang nuon	5 000	3x3	1 112	20% (1 335)	10% (1 484)	20% (1 855)	50	3 710	0.75	95	0.79
<i>Dalbergia cochinchinensis</i>	Kragnuong	40 000	3x3	1 112	20% (1 335)	10% (1 484)	20% (1 855)	50	3 710	0.10	95	0.11
<i>dipterocarpus alatus</i>	Chheuteal Teuk	300	4x4	625	20% (750)	10% (834)	20% (1 043)	50	2 086	6.96	90	7.74
<i>Eucalyptus sp.</i>	Preng kyal	1 000 000	2x2	2 500	20% (3 000)	10% (3 334)	20% (4 168)	40	10 420	0.01	?	0.01
<i>Fagraea fragrans</i>	Ta Trav	4 000 000	2.5x2.5	1 600	20% (1 920)	10% (2 134)	20% (2 668)	40	6 670	0.002	95	0.003

<i>Hopea odorata</i>	Koki Msoav	3 000	4x4	625	20%	10%	20%	80	1 304	0.44	90	0.49
					(750)	(834)	(1 043)					
<i>Leucaena leucocephala</i>	Kratom Teth (Australia)	15 000	2x2	2 500	20%	10%	20%	80	5 210	0.35	95	0.37
					(3 000)	(3 334)	(4 168)					
<i>Moringa oleifera</i>	Mrum	4 000	2x2	2 500	20%	10%	20%	80	5 210	1.31	95	1.38
					(3 000)	(3 334)	(4 168)					
<i>Pterocarpus macrocarpus</i>	Thnong	1 000	4x4	625	20%	10%	20%	40	2 608	2.61	90	2.90
					(750)	(834)	(1 043)					
<i>Sindora cochinchinensis</i>	Kar koh	400	3x3	1 112	20%	10%	20%	80	2 319	5.80	90	6.45
					(1 335)	(1 484)	(1 855)					
<i>Shorea guiso</i>	Chor chong	1 500	3x3	1 112	20%	10%	20%	70	2 650	1.77	90	1.97
					(1 335)	(1 484)	(1 855)					
<i>Shorea roxburghiana</i>	Popel tauch	1 000	3x3	1 112	20%	10%	20%	80	2 319	2.32	90	2.58
					(1 335)	(1 484)	(1 855)					
<i>Scapium macropodium</i>	Samrang	100	2.5x2.5	1 600	20%	10%	20%	80	3 335	33.35	90	37.06
					(1 920)	(2 134)	(2 668)					
<i>Tarrietia javanica</i>	Daun Chaim	900	4x4	625	20%	10%	20%	80	1 304	1.45	90	1.62
					(750)	(834)	(1 043)					
<i>Tectona grandis</i>	Mai Sac	1 000	3x3	1 112	20%	10%	20%	40	4 638	4.64	90	5.16
					(1 335)	(1 484)	(1 855)					
<i>Terminalia alata</i>	Chhlik	300	3x3	1 112	20%	10%	20%	40	4 638	15.45	90	17.17
					(1 335)	(1 484)	(1 885)					
<i>Terminalia bialata</i>	Popeal khe	2 000	3x3	1 112	20%	10%	20%	50	3 710	1.86	90	2.07
					(1 335)	(1 484)	(1 885)					

Note: The above calculations are estimates and refer to specific conditions of seed, resulting in biases. For example, although the seed weight of *Azelia xylocrpa* and *Scapium macropodium* are shown to be the same, they actually are quite different, reflecting the conditions that ensure viable seed : the weight of *Scapium macropodium* is calculated from the fresh fruit, which contains a high moisture content, whereas that of *Azelia xylocrpa* is from the dry seed. This also applies to other species such as *Pterocarpus macrocarpus* and *Shorea roxburghiana*.