



## Technical & Information Sheets

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# Recommended 'Best Practice' Tree Planting Methodology

Item	Recommended Program Timing	Comments
Check drainage in tree pit or planting area	Prior to delivery	Ensure the planting hole is free draining and does not retain excessive water. Correct if necessary. Root systems will suffocate and die if the planting hole retains water due to the exclusion of oxygen and creation of toxic anaerobic conditions.
Safe handling of trees at delivery	At time of delivery and install	Move trees by using the handles on the bags / pots. Avoid excessive handling or lifting via the trunk as this can damage fine root systems or ringbark the soft tissue on the tree trunk. Lifting via single 'choker' slings around the trunk are not to be used. 'Balancing' secondary slings may be used around the trunk with some protection such as hessian. Machine handling is recommended for larger stock > 100L as long as majority of weight is taken by the rootball.
Watering of nursery stock well immediately after delivery	At delivery	A good watering directly on the rootball is recommended immediately after delivery using a water breaker or sprayer. This helps 'settle' the tree and reduces any transport / handling shock. Daily watering is required if stock is not immediately installed.
Water nursery stock well prior to planting	Just prior to install	Rootballs should be well watered prior to install using a water breaker or sprayer. Saturation should be achieved - as a guide, this is when water begins to escape from the drainage holes. This is especially important when stock is delivered and is held on site for several days prior to planting.
Root pruning of rootball extremities	Just prior to install	All root balls of container grown trees should be root pruned prior to planting. This involves 'shaving' the entire sides and base of the root ball using a sharp spade or saw. This removes any 'non conforming roots' at the edges of the root ball and will result in improved long term growth and performance.
Plant the tree facing North	At time of installation	The North side of a tree is indicated with either a 'North' mark, the letter 'N', brand stamp or paint line on the bag. This is especially important in exposed sites in hot sunny conditions and for deciduous tree varieties.
Plant the tree at the correct soil depth	At time of installation	Ensure the root ball 'crown' (the existing top of the rootball) is installed level with the existing site soil level. Soil should not be piled over the top of the rootball and mulch should not be piled up against the trunk as this can cause rot.
Water trees once installed	At time of installation	Trees must be well watered immediately after install using a water breaker or sprayer to ensure minimal transplant shock. This is especially important in hot and/or windy conditions. Water (and irrigation systems) should be applied immediately over the existing rootball and surrounding soil.
Support of the tree	At time of installation	A 'Storm/Wind support for the tree may be required and is recommended in most situations. This is to provide temporary support for the tree while the root system is establishing in it's new position. We recommend 2-3 timber stakes minimum 300mm distance from the trunk with loosely tied hessian in a 'figure of eight'. Stem staking with tight ties is not recommended for advanced trees and can result in damage and weakening of the trunk.
Regular maintenance regime	Ongoing – minimum of 12 months	Regular application of Seasol after install for the first 6 weeks - this assists rapid establishment of a new root system. Regular watering or irrigation appropriate for the site, soils and season. Fertilisation - use a slow release product appropriate to the species. Apply on the soil surface once in Spring, once in late Summer. Ongoing formative pruning and under pruning as appropriate. Check and aim to remove any staking / supports after 6-12 months.

Trees come in all shapes and sizes

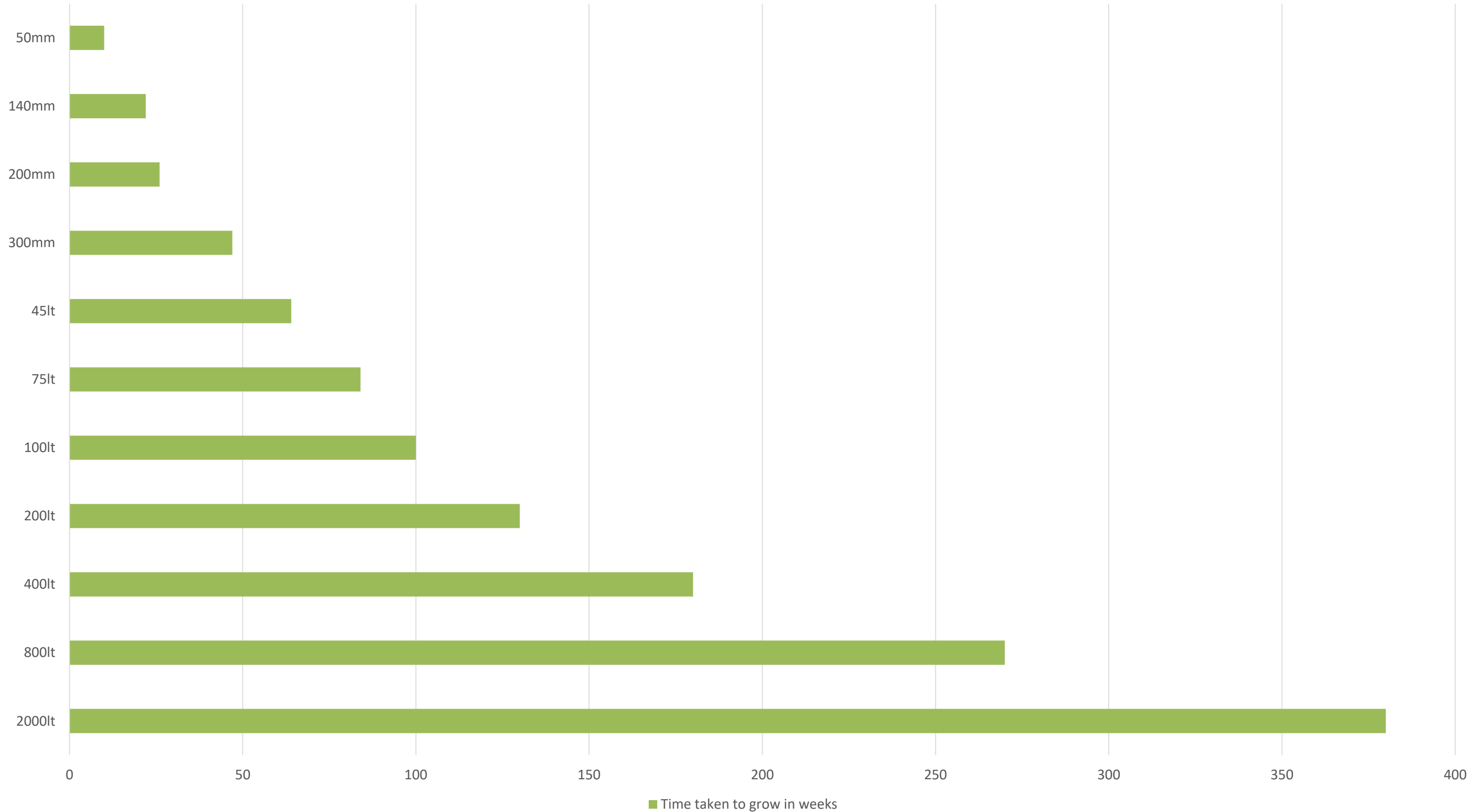



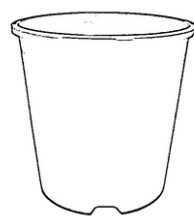

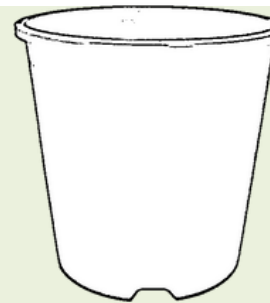



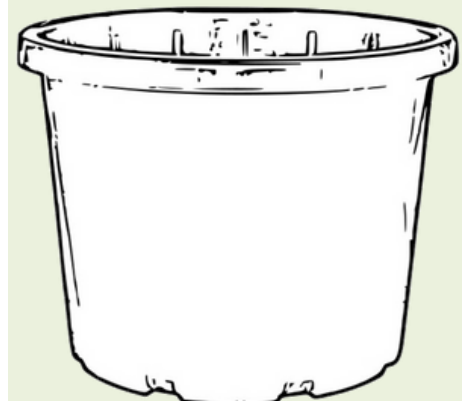

# Shrub Comparison

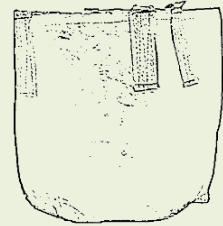

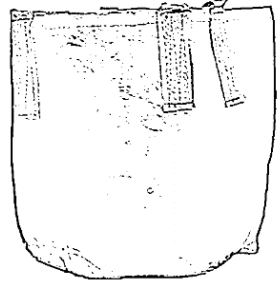

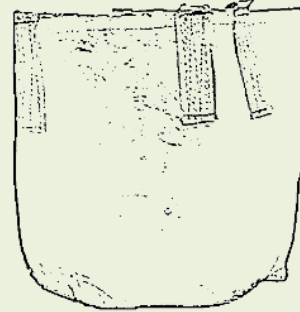



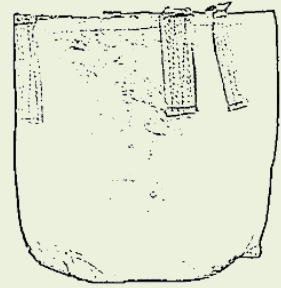






# Plant Production Timing

Time to produce a plant from seed



Industry Standard Pot Size	Dimensions (width x depth)	Plant Type	Estimated Weight	Handling	Plant Height Range	Recommended Spacing	Plant Spacing (m <sup>2</sup> )
	Various 40mm – 50mm x 70mm	Grasses, Groundcovers, Native trees, Aquatics & Shrubs	0.2kg	By Hand	0.05 – 0.10m		
	100mm pot 100mm x 100mm	Selected ornamental grasses or grown to order	0.5kg	By hand	0.05 – 0.15m	6 – 8 p/m <sup>2</sup>	
	140mm pot 140mm x 150mm	Grasses, Groundcovers, Shrubs, Trees & Fern species	0.7kg	By hand	0.1 – 0.3m	6 – 8 p/m <sup>2</sup>	
	200mm pot 200mm x 190mm	Shrubs, Trees, Hedging, Climbers, Accent plants, Strappy leaf & Grasses	2.4kg	By hand	0.4 – 0.8m	Shrubs 2 – 6 p/m <sup>2</sup> Trees 1 p/5 – 10m <sup>2</sup>	
	300mm pot 300mm x 270mm	Shrubs, Climbers, Trees, Accent plants & Palms	8.4kg	By hand	0.5 – 1.6m	Shrubs 1 – 4 p/m <sup>2</sup> Trees 1 p/5 – 10m <sup>2</sup>	

Industry Standard Pot Size	Dimensions (width x depth)	Plant Type	Estimated Weight	Handling	Plant Height Range	Recommended Spacing	Plant Spacing (m <sup>2</sup> )
	45lt bag 380mm x 380mm	Hedging, Shrubs, Palms, Accent plants, Deciduous & Evergreen Trees	30kg	2 person lift	1.4 – 2.2m	Trees 1 p/5 – 10m <sup>2</sup>	
	75lt bag 460mm x 410mm	Hedging, Shrubs, Palms, Accent plants, Deciduous & Evergreen Trees	42kg	2 person lift or machine	1.8 – 2.5m	Trees 1 p/5 – 10m <sup>2</sup>	
	100lt bag 510mm x 450mm	Hedging, Shrubs, Palms, Feature trees, Deciduous & Evergreen Trees	70kg	Machine	2.2 – 3.0m	Trees 1 p/5 – 10m <sup>2</sup>	

Industry Standard Pot Size	Dimensions (width x depth)	Plant Type	Estimated Weight	Handling	Plant Height Range	Recommended Spacing	Plant Spacing (m <sup>2</sup> )
	200lt bag 650mm x 550mm	Accent plants, Palms, Feature trees, Deciduous & Evergreen Trees	219kg	Machine	3.0 – 4.0m	Trees 1 p/5 – 10m <sup>2</sup>	
	400lt bag 920mm x 550mm	Accent plants, Palms, Feature trees, Deciduous & Evergreen Trees	450kg	Large Machine / Crane Truck	4.0 – 5.0m	Trees 1 p/5 – 10m <sup>2</sup>	
	750lt bag 1,200mm x 600mm	Accent plants, Palms, Feature trees, Deciduous & Evergreen Trees	850kg	Crane Truck	5.0 – 6.0m	Trees 1 p/5 – 10m <sup>2</sup>	
	1000lt bag 1350mm x 600mm	Accent plants, Palms, Feature trees, Deciduous & Evergreen Trees	1,100kg	Crane Truck	6.0 – 8.0m	Trees 1 p/5 – 10m <sup>2</sup>	