

VOLUMES OF LARGE TREES

by

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The volume in large trees has always provided a ready source of arguments. The range of volumes for two large karri trees as presented here should provide support for almost any estimate ever made on these trees. All that is necessary to define the method of measurement.

A recently developed method of photographic measurement of upper stem diameters was used on two large karri trees - one on Riverside Road near Shannon and the other on Barker's Road in Warren Block. Although these measurements may be slightly biased because only one-side diameters were measured, they provide the basic data for a comparison of various methods of volume estimation. All volumes exclude a three foot stump.

	Riverside Road Karri		Barkers Road Karri	
	Dimen- sions	Error %	Dimen- sions	Error %
1 G.B.H.O.B.	30.7'		29.2'	
2 Bole Height	157'		145'	
3 Volume under bark				
(a) Graphical method ("truth")	<u>85 lds</u>		<u>77 lds</u>	
(b) Using centre girth				
i direct	77 lds	-9%	62.5lds	-19%
ii derived by meaning sectional areas of butt and crown	141 lds	+65%	122 lds	+58%
iii derived by meaning girths of butt and crowns	127 lds	+49%	108.5lds	+41%
(c) Using centre girth of a number of 30' logs + odd log	83.5	-2%	71.5	- 7%

The Riverside Road tree has a girth of 15.2' at 157' and the three foot stump has a volume of 5 loads.