





## **Teagasc Timber Measurement Course**

## Thinning Assessment Plot calculations

## **Tree stocking**

Plot size = 0.01 HA (100 sq. metres)
Plot width (between 5 rows of trees) = m
100 / width = plot length (m)
Number of trees counted in two rows either side of brash path (mid-point) for length of plot
= N
Number of trees per hectare = $N \times 100$

## DBH (diameter at breast height (1.3 m)) assessment

DBH	NO. TREES	ARITHMETIC
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
TOTALS	(n)	(Ta)

Arithmetic mean $dbh = Ta/n = cm$		
MEAN DBH (Quadratic) = cm (rounded down)		
TOP HEIGHT = m		
FORM HEIGHT(from table) = <b>m</b>		
THIN DIAMETER = Mean dbh $-2 = cm$		
THIN MEAN VOL.TREE = (Thin dia. X Thin dia.) X 0.00007854 X Form height =	m³	
REMOVE 30% STEMS = Stocking per ha X 0.3 = Thin stems per ha =		
THIN VOL TO BE DEMOVED - Thin stome per ha Y Thin mean vol -		$m^3/h$ s