

## 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 brush path (mid-point) for length of plot  
= N

Number of trees per hectare = N x 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) =            m

THIN DIAMETER = Mean dbh – 2 = **cm**

THIN MEAN VOL. TREE =

(Thin dia. X Thin dia.) X 0.00007854 X Form height =            **m<sup>3</sup>**

REMOVE 30% STEMS = Stocking per ha X 0.3 = Thin stems per ha =

THIN VOL. TO BE REMOVED = Thin stems per ha X Thin mean vol. =            **m<sup>3</sup>/ha**