

Firmwood Deductions

- **What is firmwood?**

- **Two Methods**
 - Gross/ Net Method
 - Net Dimensions (this lecture)

- **Ave. Unit Volume (AUV)**
 - 'running 1 m volume'
 - ave vol. per metre
 - log: 13R / 17R / 8m
 - vol =
 - AUV (vol/m) =

- **Standard Length Deduction Method**
 - a) vol. of rot
 - b) AUV
 - c) rot / AUV = length ded'n
 - d) gross length - length ded'n = net length

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- **Butt Rot**
 - Butt Rot == Butt Log
 - Std. Length Method
 - shape is a cone
 - ... but need to know length ...
 - ... which we don't
 - Ratio Method
 - ratio -- ded'n (m)
 - 1/4 -- 0.2 m
 - 1/2 -- 0.4 m
 - 3/4 -- 1.2 m
 - 4/4 -- 2.4 m
 - interpolate if needed

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- **Ring Rot**
 - Std. Length Method
 - Rad Ded'n
 - gross end - outer rot + inner core = net area
 - convert to rads

- only one end ...

- **Conk/ Knot**
 - Length Ded'n
 - 2.4m up + 3.6 m down
 - assume 50% rot
 - if more than 2 conks?
 - if length to end is "too short"?

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- **Pocket Rot**
 - ~ circular
 - ~ rectangular
 - ~ triangular
 - we will "pretend" it's a circle

- **Missing Wood**
 - est. % missing
 - deduct that % off the length