

Dynamic tillering rules.

At fully expanded 5, calculate potential tiller number.

$\text{Supply} = R/oCd * LA5 * Phy5$

$\text{Demand} = LA9 - LA5$

$\text{calculatedTillers} = \text{tilleringPropensity} + \text{tillerSdSlope} * s/d;$

If 3 or more tillers initiate a full T2, and initiate a T3, else initiate a T3.

Daily increase tiller number at the leaf appearance rate. T3, T4...

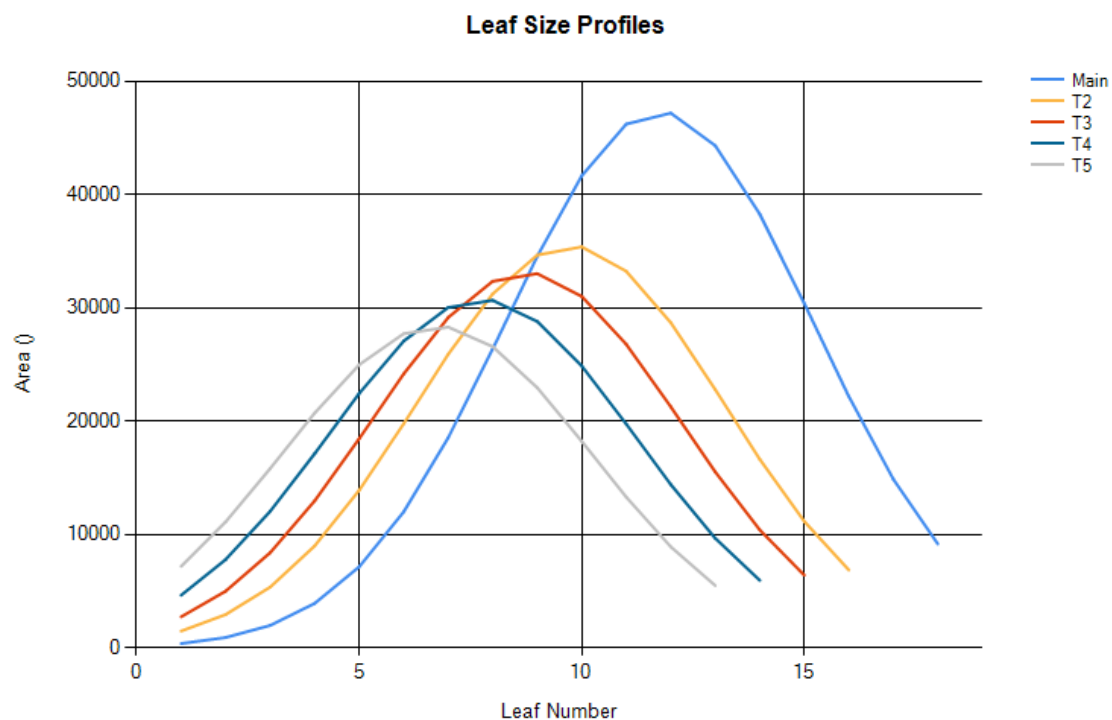
Initiate T2 with 2 leaves and other tillers with 1 leaf.

Final leaf number on each tiller is main culm FLN – tiller number. For example if the main stem has 18 leaves, then T2 will have 16 leaves and so on.

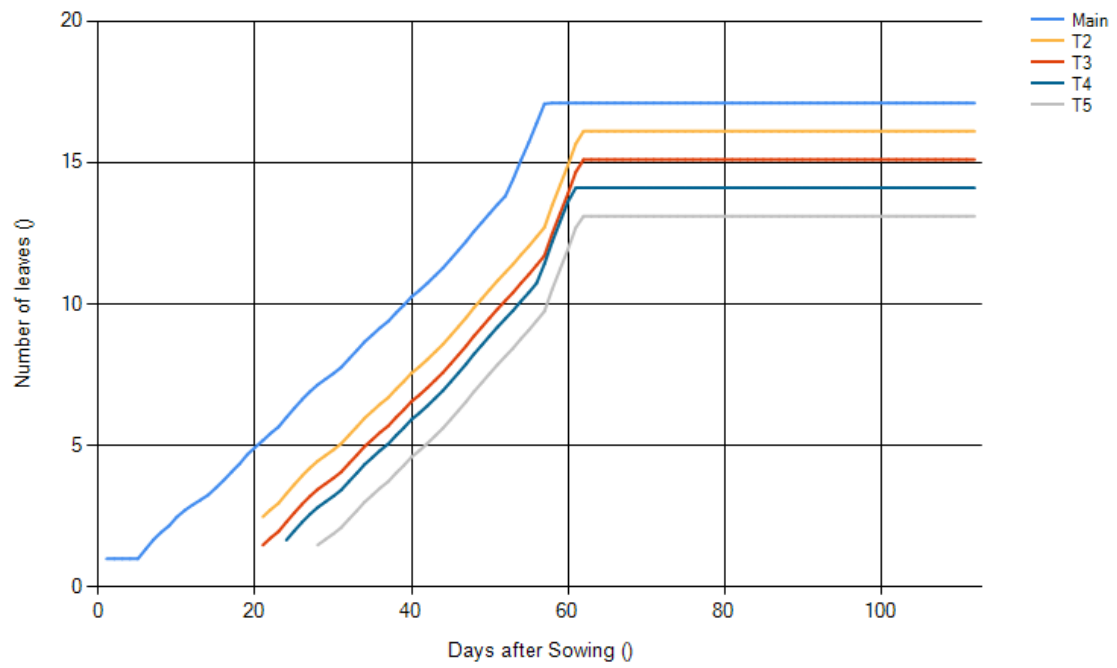
Each successive tiller has one less leaf and leaf profile is reduced. The first tiller size profile is reduced by 0.3 then the rest by 0.05.

Points to check

- Don't start tiller cessation until end of tiller initiation (linear LAI or all tillers expanded)
- Check calculation of linear LAI and LAI for stopping tiller addition
- Check calcLeafAppearance().
- Check LE20 Density 4



Leaf Appearance



Culm Area

