

Tree Circumference - Student Field Guide

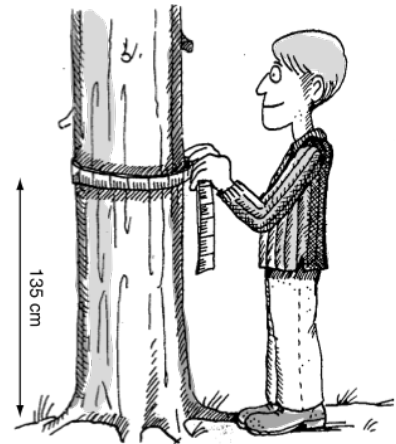
Tree Circumference Team - 2-4 people (1-2 groups per quadrant)

Task

Make measurements of circumference at breast height (CBH) (1.35m) for all mapped trees (living) greater than 15 cm circumference on your Carbon Cycle Site.

Materials

- Clipboard
- Pencil
- Tree Data Entry Sheet*
- Height indicator for 1.35m (optional)
- Flexible measuring tape (150-300m)
- Tree crayon/paintstick (optional, but recommended)



Procedure

1. Review Tree Circumference Guide: Badly Behaving Trees.
2. Stand at plot center facing north, east, south or west (according to your quadrant team). **NOTE: If 2 groups are measuring 1 quadrant-** Divide the total number of trees in your quadrant between the two tree circumference groups, for example: north to north-east (0° - 45°), north-east to east (45° - 90°)
3. Turn your body clockwise until you are facing the tree closest to that direction.
4. First check if the tree is alive. If it has died, put a “d” in the circumference column and record DEAD with the date in the “notes” section of the *Tree Data Sheet*.
5. Measure from the highest point of ground at the base of the tree to a height of 1.35m. Use a tree crayon to draw a horizontal line at 1.35m. If the tree is “badly behaving” draw a line at the place where you will measure and then record this height in the “notes” section of the *Data Sheet*.
6. Using the marked height, measure CBH to the **nearest tenth centimeter**, e.g. 16.6.
7. Report this value to the data recorder. The recorder should repeat the value out loud as they write on the *Tree Data Sheet*. (This ensures accurate CBH values.)
8. Repeat this process for all trees in your designated section.
9. **NOTE: If you discover a tree that is not mapped**, i.e. not included on your data sheet, check to see if it has grown larger than 15cm circumference. If so, you will need to measure CBH and record “added” to the data sheet in the notes section. See your teacher for additional instructions about Tree Mapping.

Tree Circumference Guide: Badly Behaving Trees

