## Woodland vegetation recording

A larger $10 \mathrm{~m} \times 10 \mathrm{~m}$ grid is marked around the permanent vegetation plot of $2 \mathrm{~m} \times 2 \mathrm{~m}$ (see overleaf). Tree and shrub species rooted in the $10 \mathrm{~m} \times 10 \mathrm{~m}$ plot will be listed together with their crown class (listed overleaf). A species may be represented in more than one of these categories. Ten cells of $40 \mathrm{~cm} \times 40 \mathrm{~cm}$ are randomly selected within the $10 \mathrm{~m} \times$ 10 m grid and the variables listed below are recorded in every cell.

| Variable | Method/comments |
| :--- | :--- |
| Species of nearest tree | Record the tree (of $>5 \mathrm{~cm}$ dbh) nearest to the centre points of the ten randomly selected cells. |
| Diameter at breast <br> height (DBH) of nearest <br> tree | Record the DBH, measured with a tape to the nearest 0.1 cm at a height 1.3 m above the ground. If the plant is <br> multiple-stemmed, the DBH of the tallest live stem is measured and the number of stems are counted and <br> recorded. |
| Height of nearest tree | Record tree height to the nearest 0.5 m. Using a tape measure and a clinometer measure your distance from <br> the base of the tree, the angle to the top of the tree and your height to eye level (see quick guide to calculating <br> height). If multiple-stemmed, the height of the tallest live stem is measured. |
| Distance and direction <br> of nearest tree from <br> centre of cell | The distance, at a height of 1.3m, and direction between the approximate centre of the chosen stem and the <br> centre of its associated random cell will be recorded. The measured stems should be marked with paint or a <br> metal tree tag at 1.3 m, numbered and re-measured on subsequent occasions. <br> If a stem dies between surveys, a replacement stem is selected from the same randomly selected cell using <br> the procedure outlined above. |
| Number of seedlings | Record the number of seedlings by species in each 40cm x 40cm cell. |

*** A single tree/shrub should only be recorded in association with one of the sub cells. If a single tree is the closest tree to multiple sub cells, then it should be recorded in relation to the first sub cell where it is the closest tree to that sub cell. For subsequent sub cells the next closest tree/shrub should be identified and measured.


Ten $40 \mathrm{~cm} \times 40 \mathrm{~cm}$ cells are selected at random from the $10 \mathrm{~m} \times 10 \mathrm{~m}$ woodland recording quadrat, which is located with the permanent $2 \mathrm{~m} x$ 2 m vegetation plot at its centre. Find the point 4 m south and 4 m west of the permanent marker, and lay out two 10 m axes with measuring tapes. Use compass and a further tape to find particular cells.

## Tree crown classes

## 1. Dominant

Trees with crowns extending above the general level of the crown cover and receiving full light from above and partly from the side. Usually larger than the average trees in the stand and with crowns well developed

## 2. Subdominant

Trees with crowns forming the general level of the crown cover and receiving full light from above but comparatively little from the sides

## 3. Intermediate

Trees shorter than those in the two preceding classes but with crowns extending into the crown cover formed by dominant and sub-dominant trees; receiving a little direct light from above

## 4. Suppressed

Trees with crowns entirely below the general level of the crown cover

## 5. Tree

A woody perennial plant with a diameter at breast height (dbh; 1.3 m above the ground) $>5 \mathrm{~cm}$, typically with a single, well-defined stem carrying a more or less definite crown.

## 6. Sapling

A young tree; no longer a seedling and growing vigorously; DBH between 0.5 cm and 5 cm .

## 7. Seedling

A young tree or shrub grown from seed; from its germination up to the sapling stage, i.e. with a dbh $<0.5 \mathrm{~cm}$.

## 8. Shrub

A woody perennial plant with persistent and woody stem(s). It differs from a tree or sapling, as defined here, in its lower stature and the general absence of a well-defined main stem

