

# Root Sampling Protocol

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## Root Sampling Protocol (2001/2002)

The aim of the survey is to investigate the below ground biomass of a number of willow and poplar Energy Coppice varieties across a range of soil and climate types around the UK. The soil cores will be split up according to soil horizons and then split into 10cm columns. Roots will then be recovered from each column for analysis.

The sites contain 6 coppice varieties each planted in plots of 100 stools. Plots are roughly 10m x 10m planted on a 'twin row' design. There are 3 plots (replicates) of each variety at each site. Above ground stems may hamper operations. We hope to collect the cores in January, February or March 2002.

Site Number	Site Name	Outstation	Soil Series	Subgroup number	Subgroup name
13	Talybont	Talybont	Eardiston	541	Typical brown earth
9	Bigbrook	Exeter	Denbigh	541	Typical brown earth
4	Trumpington	Fineshade	Windrush	814	Pelo-calcareous alluvial gley soil
11	Myerscough	Wykeham	Wigton Moor	831	Typical cambic gley soil
14	Gilder Beck	Wykeham	Wigton Moor	831	Typical cambic gley soil
29	Oyne	Newton	Quorndon	831	Typical cambic gley soil

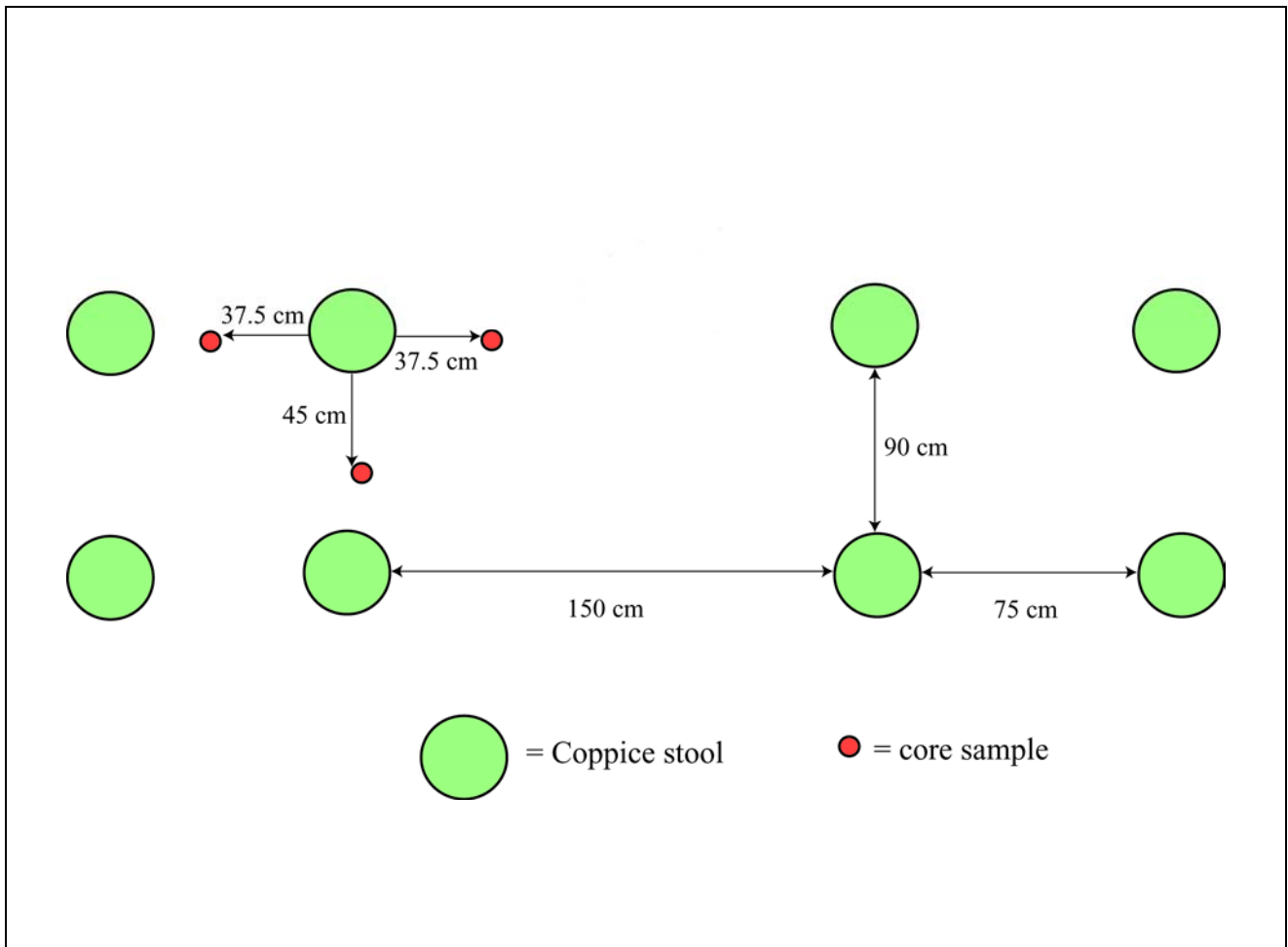
Site numbers relate to sites map.

3 cores per stool x 6 coppice varieties x 3 replicates = 54 cores per site

54 core x 6 sites = 324 cores in total

Core depth = 1.5m, core diameter = 84mm

Cores are to be sealed in liners or bags to prevent water loss and delivered to Forest Research at Alice Holt.



**Figure 1: Positioning of core samples**