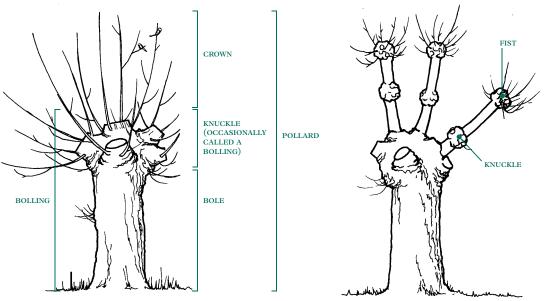


## Glossar y

Figure 48a. Features of a Veteran Tree.



ancient tree - adventitious buds -

aerial roots -

bolling -

(see figure 48a)

bole - (see figure 48a)
branch bark ridge -

branch collar -

brown rot -

bundle -

burr -

buttress -

callus -

cambial zone -

cambium -

The final stage in a tree's life.

Secondary buds arising in already existing tissue, often as a result of damage.

Adventitious roots, developing from bark tissue on the above-ground parts of a tree, sometimes into a decaying trunk. The permanent trunk and stubs of a pollard consisting of the knuckle and the bole. It can take many different shapes depending on the form of the tree. Sometimes used for the knuckle alone. The main trunk of a pollard.

The area of raised bark tissue that forms at the junction of a branch and the main stem.

The swelling at the base of a branch formed when the growth of the branch is disproportionately slower than that of the main stem. The term is also used for the growth pattern of the cells of the main stem, around those of the branch, even if no swelling is visible. That where the cellulose is degraded but the lignin is only modified. Also called red rot, orange rot, etc.

A tree that has, naturally or by planting, originated from two or more seedlings of the same or different species, in close proximity. As the individuals grow they become closely pressed together.

A tumour-like swelling on a tree resulting from any number of causes, sometimes associated with epicormic growth.

A swelling or spur at a base of a trunk where a root differentiates into the stem. Collectively the buttresses form a flare.

An undifferentiated mass of cells, for example on the surface of wounded living plant tissue. Also a fold of differentiated wood and bark that forms around a wound on a tree.

A multiple layer of meristematic cells, which divides to form the increments (rings) of bark and/or woody tissues.

The layer of cells that develops into the cambial zone (see above), existing as a single layer during dormancy. The vascular cambium forms wood on its inside and bark on the outside, whereas the cork cambium lies within the bark and forms corky cells on its outside and sometimes a secondary cortex on its inside.



canker -An area where the bark and the cambium have been killed by dysfunctional wood -Wood that has lost all or part of its original function (eg it can be disease; it is usually occluded by new bark and wood forming structurally important but not conductive). around its edge. early-wood -The wood produced by trees in their main flush of growth, in the The coverage of leaf area of one or more trees. Open canopy spring. The wood may have better water conduction ability than canopy where the trees are spaced apart, closed canopy where they late-wood but is often less resistant to dysfunction and decay. endophytic fungi overlap. Also the uppermost layer of woodland. Fungi living within plant tissues without causing overt disease. case hardened -When the surface of exposed wood dries rapidly and seals in internal epicormic growth -Literally, growth 'upon stem', initially appearing as twiggy growth moisture. The underlying wood may be functional or decaying. apparently from the bark surface. There are two types, that from cavity -Hole in a tree caused by the removal or destruction of wood. dormant buds and that developing adventitiously. cellulose -The main component of plant cell walls; a carbohydrate composed epiphyte -A plant or lichen growing on a plant. of long filaments, made up of glucose molecules. flush cut -A cut that cuts into the branch bark ridge, which injures the chase -Unenclosed land where wild animals were preserved for hunting, trunk. usually owned by a subject rather than the Crown. flux -Liquid emissions from within the tree, leaking to the surface, coarse woody often colonised by yeasts sometimes emerging under gaseous debris (CWD) -An American expression referring to dead wood with a diameter pressure. of more than 2.5 cm. **fist** - (see figure 48a) A collection of knuckles. compartmentalisation -The physiological isolation of columns of wood within the tree. former wood-pasture -Wood-pasture that is no longer grazed. A tree coppiced and, later in life, pollarded. forest -A tract of land, usually owned by the Crown, and subject to coppard -An area of trees cut near ground level and left to regenerate from special laws, mostly concerned with the preservation of game. coppice the stool. Often cut as a block, usually as part of a fairly formal fused coppice -A coppice stool with mature stems that have fused to give the rotation. Also used as the verb to coppice and as an intransitive appearance of a single stem. verb meaning the response of the tree. girdling -See ring-barking. grazed high forest -A form of wood-pasture where the trees are maidens; not coppice coppice stool -See stool stools or pollards. The canopy is usually quite dense. A wood used for cutting coppice (variant of coppice) but also copse used more loosely for a small wood. heartwood -The dead, or predominantly dead, wood in the centre of tree species (eg oak) whose living sapwood has a determinate lifespan. cork cambium -A layer of cells within the bark, laying down corky cells on the **knuckle -** (see figure 48a) outside. The top of the bole on a pollard. The point where branches have Irregular cuts made in the stub left after a branch has been been repeatedly cut back which has become swollen. coronet cut removed, the aim of which is to give the cut surface a more hulk -The remains of a large ancient tree, living or dead, with very natural appearance. little crown. lapsed pollard **crown** - (see figure 48a) The spreading branches and foliage of a tree. A pollard that has not been cut for many years. crown thining -The systematic pruning of small diameter branches throughout late-wood The wood produced by trees after the main flush of growth in the the crown. With the aim of reducing weight or wind load. spring. The wood may have poorer water conduction ability than crown reduction -The reduction of branch length in part or whole of the crown. early-wood but is often more resistant to dysfunction and decay. A form of brown rot, where the decayed wood breaks apart in When aerial parts of a tree (or the whole tree) touch the ground cubical rot layering and roots form new, but initially connected, plants. This can be cubes. cuboidal rot -As above. natural or as a result of human influence. dbh -Diameter at breast height. Usually 1.3 m above the ground leader -The main (or topmost) shoot(s) of a tree. lignin unless the tree shows abnormal swellings at that point. A component of wood cells that is cement-like and hard. The deadwood -Wood which no longer fulfils any function for the tree. It may still process of lignin deposition within the cellulose cell walls is called be attached or have fallen from the tree. lignification. dead wood -Wood that no longer contains living cells. Includes deadwood (as lopping -Cutting the lateral branches of a tree, but not the top. defined above) and also heartwood etc., which may have a maiden -A tree that has not been modified by cutting. Unless it has been structural function in the tree. damaged by wind etc., it has its original natural crown. The chemical breakdown of wood by micro-organisms. A tree that has attained peak crown size and a shape that is decay mature dormant buds -Those formed during the development of the current year's different from the developing stage. The maximum point in the shoots but which do not develop unless later stimulated to grow. mature stage of a tree is also the pivotal point after which the doted -See spalted. ancient stage starts. dottard -A tree that has lost its top or branches, is dead and in a state of monolith -A managed standing dead tree, usually with very few limbs. mycorrhizal fungi -Fungi forming an intimate and mutually beneficial association decay. dozed with the roots of trees. see spalted. dieback -The death of a part of the tree, usually from the periphery natural pollard -A tree that has been pollarded by 'natural' means, eg by wind or squirrel damage, sometimes also called a self-pollard. It will have inwards.

originated from a maiden tree.



old growth woodland -Woodland stands that have not been managed for over 200 years. saproxylic -From the Greek Sapros (dead) and xylos (wood). Organisms that Many of the trees have a large girth, and dead and dying trees are are dependent, during some part of their life cycle, upon wood or bark, usually dead or dying. present. self-pollard -See natural pollard. old tree -Any tree in the ancient phase. singled coppice open grown -The form of trees grown in the absence of competition and A coppice stool where all the limbs except one are removed. shred shading which tends, in many species, to be squat and spreading. A tree where the branches are periodically removed up the side of A tree beyond full maturity. Usually used in commercial forestry the trunk and then left to re-grow. A tuft is usually left at the top over-mature to mean a tree past its commercial peak. and occasionally an upper branch. Park (or Historic Park) -An area of enclosed land where domestic animals or, more slime flux -Flow of fluid out of the bark, partly due to microbial action. usually, deer were, or are, kept among widely spaced trees. (Not snag -In the USA a standing dead tree. Also used for a dead branch stub. soft rot -The wood decay that results from degradation of the cellulose in a municipal park.) parkland -A form of wood-pasture where the trees are mostly open grown. the cell walls, but without general erosion of the wall, by a fungus. pasture woodland -See wood-pasture. spalted -A term used by wood workers to describe wood patterned by pastured woodland -A form of wood-pasture where the use by animals is periodic or decay fungi. seasonal, for example used as shelter in upland areas. springwood see earlywood. stag headed -The state of the crown of a tree when the dead branches protrude pathogen -A micro-organism causing disease (adjective: pathogenic). The conductive tissue, composed of special cells, through which above the canopy. Often as a result of retrenchment and not a phloem the products of photosynthesis are translocated throughout the sign of ill health. stool -A tree that has been coppiced. Also used for that part of the tree A tree that has fallen or split apart that has successfully which is retained after coppicing. phoenix regeneration stored coppice -A coppice stool retained beyond its normal coppice cycle. continued growing. poll (v) and polling -The formative process of removing the crown of a young maiden stub -A truncated limb on a tree, either cut or natural. Also used for a tree creating a pollard. Often now referred to as pollarding. tree intermediate between a coppice stool and a pollard. **pollard** (n) - (see figure 48a) A tree cut once or repeatedly at a height above which grazing stow -A pollard (local name). animals can reach the regenerating shoots. Usually cut on a sucker -A shoot arising from a root. semi-regular basis, with the whole or part of the crown removed. summerwood see latewood. pollard (v) -The act of cutting an already created pollard. (Originally a noun timber -Large tree trunks, suitable for sawing into planks. derived from the transitive verb 'to poll', now used as a verb in its cutting off most or all of the crown of a mature or semi-mature topping own right.) pruning -Cutting a tree with the intention of modifying its form or growth. tree pool -A pool of water on a tree, often where a branch or root joins the releasing (trees) -Clearing competing younger trees from around a veteran. trunk. The bark may remain intact under the water or some relict pasture woodland -Wood-pasture that is no longer grazed, also used for small decay may be taking place. remnants of a larger area of wood-pasture that are still grazed. veteran tree -A human valuation applied to trees in the ancient phase. The repollarding -A confusing word, used in the past for both pollarding and implication is that the tree has 'gone through the wars' and is a restoration pollarding, best not used. survivor. residual wood-pasture -As former wood-pasture. water sprout/w ater restoration pollarding shoot -The re-establishment of a cycle of pollarding on trees that have Epicormic growth. not been in a regular cycle for many years. Decay where the lignin and cellulose are both broken down. white rot -A process whereby a tree with crown dieback forms a smaller, wildwood -Woodland unaffected by neolithic or later civilisations. retrenchment lower crown. withy -Willow of 1-2 year old growth, used for baskets. ring-barking -The removal of a strip of inner and outer bark down to the withv bed -A group of willows used for withy. cambium, all round the stem or trunk. wood -Poles and branches of trees, smaller in diameter than timber. The end result of the decay process, a rich, humus-like substance. ripe wood -Older wood in the centre of tree species (e.g. beech) where the wood mould sapwood gradually ages and is not converted to heartwood. wood-pasture -Land with trees that is grazed (often called pasture-woodland). Equivalent to individual buttresses. working tree -A tree that is managed so that parts of it are used as a renewable root spurs rot -See decay. resource for various purposes by man. The amount of tree canopy that is exposed to the wind. Plant tissue that has the function of translocating water and sail area xylem mineral nutrients. In trees and shrubs the xylem is heavily lignified sap-flux -See flux. As saprotrophic but pertaining to plants (adjective: saprophytic). and has an additional function in providing structural support. saprophyte -An organism obtaining nutrients from dead organic matter saprotrophe -(adjective: saprotrophic).

The living xylem found in a woody plant. It either gradually loses viability over a number of years or is converted to a distinct

heartwood which is largely dead.

sapwood -