# Glossary of Terms and Definitions Related to Coppice

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Term	Synonyms	Definition	Reference
adventitious	adventitious root; adventitious bud; adventitious shoot	<ol> <li>(of buds) those produced elsewhere than normal, such as leaf axils, shoot apices (e.g. those appearing with wounds).</li> <li>(of roots) lateral roots coming from organs other than main root system, such as the stem.</li> </ol>	Beentje & Williamson (2016)
afforestation		Establishment of a forest or stand in an area where the preceding vegetation or land use was not forest.	Ford- Robertson (1971)
bioenergy		Energy derived from biomass.	ISO EN 16559
biological diversity	biodiversity	The variability among living organisms from all sources including, inter alia, terrestrial, marine and other aquatic ecosystems and the ecological complexes of which they are part; this includes diversity within species, between species and of ecosystems.	UNEP (1992) via SilvaVoc
browsing		Feeding on the buds, shoots and leaves of shrubs and trees by livestock or wild animals.	Kaennel & Schwein- gruber (1995)
bud		A meristem (either apical or lateral) in early development or resting stages, with its protective coverings; immature shoot, usually protected by scales or prophyll(s), or immature flower, protected by bracts, bracteoles and/or perianth segments.	Beentje & Williamson (2016)
canopy		The foliar cover in a forest stand, consisting of its upper layers.	Helms (1998)

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Term	Synonyms	Definition	Reference
canopy closure	canopy cover	Ground area covered by the crowns of trees or woody vegetation as delimited by the vertical projection of crown perimeters and commonly expressed as a percent of total ground area —note crown cover measures the extent to which the crowns of trees are nearing general contact with each other.	Ford- Robertson (1971)
clones		A group of plants produced from cuttings, stump or root sprouts, tissue culture, or some other method that produces offspring genetically identical to the original plant.	Maynard (1996) in FAO (2002)
conversion		A change from one silvicultural/manage- ment system to another, e.g. from clearfell to selection forest. Sometimes also used for a change from one (set of) species to another.	Nieuwenhuis (2000) via SilvaVoc
coppice		<ol> <li>A plant derived by coppicing.</li> <li>Any shoot arising from an adventitious or dormant bud near the base of a woody plant that has been cut back.</li> </ol>	Burley et al. (2004)
coppice conversion by aging		The low coppice is no longer cut so that stands reach a maturity in which they are able to regenerate naturally by seed. During the waiting period, tending operations (e.g., cleaning, thinning) are applied depending on the stage of development. These inter- ventions are halted after 60-80 years, after which silvicultural systems typical to high forests can be applied in order to regenerate the stands naturally by seed.	Nicolescu et al. (2017)
coppice conversion by replacement		The restoration of such coppice stands for their conversion to high forest is done either by (1) Clear-cutting, followed by planting, mostly of conifer tree species such as pines or Norway spruce; (2) Clear-cutting, followed by manual/ mechanical seeding of species such as oaks; (3) Use of high forest silvicultural systems, such as uniform shelterwood cutting.	Nicolescu et al. (2017)

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coppice forest		Forest which has been regenerated by allowing regrowth from cut stumps or root suckers, or both, i.e., by vegetative means. Normally grown on a short rotation for small poles, but sometimes, e.g. some eucalypt species, to a substantial size.	IUFRO (2005)
coppice selection system	coppice selection	A coppice system in which only selected shoots of merchantable size are cut at each felling, giving uneven-aged stands.	Nieuwenhuis (2000) via SilvaVoc
coppice stand		Forest stand composed of stools that produce coppice shoots which form the major part of the crop.	Harmer (1995)
coppice system		Silvicultural system in which crops regen- erate vegetatively by stump sprouts and the rotation is comparatively short.	Young (1982)
coppice with standards	compound coppice; coppice with standards system	A coppice system in which selected stems are retained as standards at each felling to form an uneven-aged overstorey which is removed selectively on a rotation constituting some multiple of the coppice rotation; a crop partly of vegetative and partly of seedling origin.	Burley et al. 2004
coppicing		<ol> <li>The production of new stems from the stump or roots.</li> <li>To cut the main stem (particularly of broadleaved species) at the base to stimulate the production of new shoots for regeneration.</li> </ol>	Burley et al. (2004)
cutting(s)		A small shoot taken from near the end of a branch or the stem of a plant. It is placed in the ground and will produce roots and develop into a new plant which will be genetically identical to the original plant.	Nieuwenhuis (2000) via SilvaVoc
dieback		A term often used to mean 'death'. More correctly, it means a progressive death of a tree or a branch from its extremities towards the roots. Dieback can be reversible.	Burley et al. (2004)

Term	Synonyms	Definition	Reference
direct conversion of simple coppice		A transition from low coppice to high forest that does not involve another silvicultural system. The method of direct conversion includes (i) conversion by ageing (conversion by full cessation of low coppice cuttings), (ii) mixed conversion (conversion by partial cessation of low coppice cuttings), and (iii) conversion by replacement/restoration.	Nicolescu et al. (2017)
dormancy	dormant bud; latent bud; preventitious bud; latency	A special condition of arrested growth in which the plant and such plant parts as buds and seeds do not begin to grow without special environmental cues.	Young & Giese (1990)
epicormic growth		Growth of lateral buds after the apical bud is damaged.	Young & Giese (1990)
epicormic shoot	water shoot; water sprout; epicormic branch	A shoot arising spontaneously from an adventitious or dormant bud on the stem or branch of a woody plant often following exposure to increased light levels or fire.	Ford- Robertson (1971)
fodder		Coarse food that is composed of entire plants or the leaves and stalks of a cereal crop, and is fed to cattle and horses.	Park & Allaby (2013)
fuel wood	firewood	Any wood source that is used, without alteration, as a type of fuel for heating, lighting or cooking purposes.	Grebner et al. (2013)
high forest		A stand of trees, generally of seedling origin, that normally develop a high, closed canopy.	Ford- Robertson F.C. (1971)
high forest system		Silvicultural system in which forest is managed on rotation sufficient to produce trees large enough for timber production.	IUFRO (2005)
indigenous		Native to a specified area or region, not introduced.	Ford- Robertson (1971)
indirect conversion of simple coppice		This method removes all current species and introduces new species to the area.	Nicolescu et al. (2017)

Term	Synonyms	Definition	Reference
introduced tree species		An established (not nec) plant or animal not native to the ecosystem, region, or country.	Ford- Robertson (1971)
invasive tree species		An organism that is non-native (or alien) to an ecosystem and whose introduction causes or is likely to cause economic or environmental harm or harm to human health = invasive pest species.	Ford- Robertson (1971)
lateral shoot		Lateral means 'at the side', 'towards the side', 'from the side', 'axillary', 'farther from the midline of the body', 'situated towards or at the side of the body'. E: (4) lateral shoot.	Klein (2008)
layering		The rooting of an undetached branch (= a layer) lying on or partially buried in the soil, which is capable of independent growth after separation from the mother plant.	Nieuwenhuis (2000) via SilvaVoc
leading shoot		The leading shoot is the main shoot which develops from the terminal bud at the top of a tree each year.	Klein (2008)
mixed conversion (coppice)		Conversion to high forest by partial cessation of low coppice cuttings. Every 10 years (production of a new management plan), a part of low coppice stands are no longer exploited, while the rest of stands are treated as low coppice. The area of low coppiced stands continuously decreases until they no longer exist, while the area covered with high forests increases and these stands form successive age classes.	Nicolescu et al. (2017)
mixed forest		Forest or woodland consisting of different species either between or within specified areas.	Nieuwenhuis (2000) via SilvaVoc
monoculture	pure stand	A stand of a single species, generally even-aged.	Ford- Robertson (1971)
multi- stemmed tree		"multi-": comb. prefix meaning many.	Gray (1967)

Term	Synonyms	Definition	Reference
over-aged coppice	abandoned coppice; aged stools; derelict coppice; neglected coppice; neglected stools; overstood coppice; stored coppice	Coppice woodlands that have been left to grow substantially beyond the normal rotation and developed stools with stems having the characteristic sizes and lengths of high forest trees.	Harmer & Howe (2003)
overmature stand		<ol> <li>A tree or even-aged stand that has reached that stage of development when it is declining in vigor and health and reaching the end of its natural life span - not nec end of life</li> <li>A tree or even-aged stand that has begun to lessen in commercial value because of size, age, decay, or other factors.</li> </ol>	Ford- Robertson (1971)
plantation		A stand composed primarily of trees estab- lished by planting or artificial seeding —note 1. a plantation may have tree or understory components that have resulted from natural regeneration —note 2. depending on management objectives, a plantation may be pure or mixed species, treated to have uniform or diverse structure and age classes, and have wildlife species commensurate with its stage of development and structure —note 3. plantations may be grown on short rotations for biomass, energy, or fiber production, on rotations of varying length for timber production, or indefinitely for other values.	Ford- Robertson (1971)
pole		A straight, bark-free, tree-length log with one end embedded in the ground that supports power and communication wires, highway sound barriers, and similar structures.	Burley et al. 2004
pole stage	pole phase	Still-young tree larger than 10 cm dbh, up to about 20-23 cm dbh.	Young (1982)

Term	Synonyms	Definition	Reference
pollarding		Cutting back, in a more or less systematic fashion, the crown of a tree, with the object of producing a close head of shoots (a pollard) beyond the reach of browsing animals.	Burley et al. (2004)
provenance	geographic origin	Natural origin of seeds or trees, usually synonymous with "geographic origin", or a plant material having a specific place or origin.	Young & Giese (1990)
pruning		The removal, close to the branch collar or flush with the stem, of side branches (live or dead) and multiple leaders from a standing tree —note 1. pruning is generally done on plantation trees to improve the tree or its timber, or on urban and rural trees to improve their aesthetics or health	Ford- Robertson (1971)
regeneration		The natural or artificial process of re-establishing tree cover on forest land.	Nieuwenhuis (2000) via SilvaVoc
rotation period	rotation age	Period of years required to establish and grow timber crops to a specified condition of maturity. Applies only to even-aged management.	Young (1982)
seed tree		A tree selected and often reserved for the collection of seed or for natural seeding of a (understocked) regeneration area.	Nieuwenhuis (2000) via SilvaVoc
shelterwood system		A harvesting system in which most of the trees are felled but some are left to provide protection for the new forest by providing either shade or wind protection.	Helms (1998)
shoot	coppice shoot; sprout; spring	A shoot arising from an adventitious bud at the base of a woody plant that has been cut near the ground. In the case of a sucker, the shoot arises from the root of the plant.	Nieuwenhuis (2000) via SilvaVoc

Term	Synonyms	Definition	Reference
short rotation coppice		Production of woody biomass, generally on agricultural lands, by regenerating new stems from the stump or roots after harvesting and relying on rapid growth, generally over a 1 to 5 years cycle.	ISO EN 16559
shredding	lopping	The repeated removal of side branches on a short cycle, leaving just a tuft at the top of the tree.	Burley et al. (2004)
shrub		Woody perennial plant, seldom exceeding 3.0 m in height, usually having several persistent woody stem branching from the ground.	Young (1982)
simple coppice	low coppice; simple coppice system	A coppice system in which all shoots in a stand are cut at each felling, giving even-aged shoots and stands.	Nieuwenhuis (2000) via SilvaVoc
singling	stored coppice	To reduce the regrowth from a coppice stool to allow a single pole to grow on to form a standard tree.	Park & Allaby (2013)
site index		A species-specific measure of actual or potential forest productivity (site quality, usually for even-aged stands), expressed in terms of the average height of trees included in a specified stand component (defined as a certain number of dominants, codomi- nants, or the largest and tallest trees per unit area) at a specified index or base age. —note site index is used as an indicator of site quality.	Ford- Robertson (1971)
site quality class		The maximum quantity of material, of given species, that an area is capable of producing under normal conditions, so long as the factors of the locality remain unchanged.	Nieuwenhuis (2000) via SilvaVoc
sprouting		Type of asexual vegetative reproduction in which sprouts arise (i) from the side of a stump (developed from dormant buds) or (ii) between the bark and wood, on the surface of the stump (originated from adventitious buds).	Fujimori (2001)

Term	Synonyms	Definition	Reference
stool	stump	A living stump (capable of) producing coppice shoots.	Burley et al. (2004)
stool shoot	stool sprout; stump shoot; stump sprout	<ol> <li>A shoot or new stem/branch emerging from (near) the base of the plant, especially when the stem has been cut;</li> <li>Several stems arising from the same root.</li> </ol>	Beentje & Williamson (2016)
sucker	root sucker	A shoot arising below group from the roots some distance from the main stem.	Beentje & Williamson (2016)
thinning residues		Woody biomass residues originating from thinning operations.	ISO EN 16559
vegetative regeneration	vegetative propagation; vegetative reproduction	Nonsexual reproduction.	Burley et al. (2004)
veteran tree		<ol> <li>Trees of interest biologically, aesthetically or culturally because of their great age;</li> <li>Trees in the ancient stage of their life;</li> <li>Trees that are old relative to others of the same species.</li> </ol>	Read (2000)
virgin forest	semi-natural forest; semi- natural ancient woodland	Areas (or forests) that have never been disturbed by human intervention, showing natural development in structure and dynamics. The soil, climate, entire flora and fauna and the life processes have not been disturbed or changed by timber manage- ment, cattle grazing, or other direct or indirect anthropogenic influences.	Schuck et al. (2002)
windbreak	shelterbelt	A line of trees or shrubbery planted or managed in such a way as to protect a building or crops, or to alter climate or wind.	Helms (1998)

These terms and definitions can be found in the online Multilingual Forestry Glossary, along with illustrations and translations into many European languages.

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