

# WALLINGFORD CASTLE MEADOWS MANAGEMENT PLAN

## Appendix 1 – Biological Information

Order/Family	#Species name	Vernacular	Comment
Amphibian	<i>Bufo bufo</i>	Common toad	
Amphibian	<i>Rana temporaria</i>	Common frog	
Aquatic invert.	<i>Asellus aquaticus</i>	Water Slater	
Aquatic invert.	<i>Nepa cinerea</i>	Water Scorpion	
Aquatic invert.	<i>Sigara sp.</i>	Coroxid Water Bug	
Beetle	<i>Acilius sulcatus</i>	Dytiscid Water Beetle	
Beetle	<i>Agabus sturmii</i>	Dytiscid Water Beetle	
Beetle	<i>Anisosticta 19-punctata</i>	Water ladybird	
Beetle	<i>Cantharis rustica</i>	Soldier beetle	
Beetle	<i>Dorcus paralleloides</i>	Lesser stag beetle	female
Beetle	<i>Ilybius fuliginosus</i>	Dytiscid Water Beetle	
Beetle	<i>Lucanus cervus</i>	Stag beetle	female seen June 2003
Bird	<i>Acanthus cannabina</i>	Linnet	Seen on 2 dates in June 2005
Bird	<i>Acripiter nisus</i>	Sparrow Hawk	
Bird	<i>Acrocephalus schoenobaenus</i>	Sedge Warbler	
Bird	<i>Aegithalos caudatus</i>	Long-tailed Tit	Seen October 2000 and April 2005
Bird	<i>Alauda arvensis</i>	Skylark	
Bird	<i>Alcedo atthis</i>	Kingfisher	
Bird	<i>Alectoris rufa</i>	Red-legged Partridge	
Bird	<i>Anas clypeata</i>	Shoveler duck	Only record 2 seen March 2001
Bird	<i>Anas platyrhynchos</i>	Mallard	
Bird	<i>Anthus pratensis</i>	Meadow Pipit	
Bird	<i>Apus apus</i>	Common Swift	
Bird	<i>Ardea cinerea</i>	Grey Heron	
Bird	<i>Athene noctua</i>	Little Owl	
Bird	<i>Branta canadensis</i>	Canada Goose	
Bird	<i>Buteo buteo</i>	Buzzard	
Bird	<i>Carduelis carduelis</i>	Goldfinch	
Bird	<i>Carduelis chloris</i>	Greenfinch	
Bird	<i>Carduelis spinus</i>	Siskin	Only record 3 seen Feb 2005 Seen regularly, suspected breeding
Bird	<i>Certhia familiaris</i>	Treecreeper	
Bird	<i>Columba oenas</i>	Stock Dove	
Bird	<i>Columba palumbus</i>	Wood pigeon	
Bird	<i>Corvus monedula</i>	Jackdaw	
Bird	<i>Corvus corone corone</i>	Carrion Crow	
Bird	<i>Corvus frugilegus</i>	Rook	
Bird	<i>Cygnus olor</i>	Mute Swan	
Bird	<i>Delichon urbica</i>	House Martin	
Bird	<i>Dendrocopos major</i>	Great Spotted Woodpecker	

Bird	<i>Emberiza schoeniclus</i>	Reed Bunting	2 records, April & June 2005
Bird	<i>Erithacus rubecula</i>	Robin	
Bird	<i>Falco tinnunculus</i>	Kestrel	
Bird	<i>Fringilla coelebs</i>	Chaffinch	
Bird	<i>Fulica atra</i>	Coot	
Bird	<i>Gallinula chloropus</i>	Moorhen	
Bird	<i>Garrulus glandarius</i>	Jay	
Bird	<i>Hirundo rustica</i>	Swallow	
Bird	<i>Larus fuscus</i>	Lesser Black-backed Gull	Jan 2005, April 2005
Bird	<i>Larus ridibundus</i>	Black-headed Gull	Seen occasionally in groups up to 50
Bird	<i>Mergus merganser</i>	Goosander	Pair seen April 2002
Bird	<i>Milvus milvus</i>	Red Kite	
Bird	<i>Montacilla flava</i>	Yellow wagtail	Only record 35 seen September 2000
Bird	<i>Motacilla alba</i>	Pied wagtail	Only record 2 seen October 2000
Bird	<i>Motocilla cinerea</i>	Grey Wagtail	
Bird	<i>Muscicapa striata</i>	Spotted flycatcher	Only record September 2001
Bird	<i>Numenius arquata</i>	Curlew	One seen March 2001, April 2001, March 2002
Bird	<i>Parus ater</i>	Coal Tit	
Bird	<i>Parus caeruleus</i>	Blue tit	
Bird	<i>Parus major</i>	Great Tit	
Bird	<i>Perdix perdix</i>	Grey partridge	
Bird	<i>Phalacrocorax carbo</i>	Cormorant	
Bird	<i>Phasianus colchicus</i>	Pheasant	
Bird	<i>Phylloscopus collybita</i>	Chiffchaff	
Bird	<i>Phylloscopus trochilus</i>	Willow Warbler	
Bird	<i>Pica pica</i>	Magpie	
Bird	<i>Picus viridis</i>	Green Woodpecker	
Bird	<i>Podiceps cristatus</i>	Great Crested Grebe	
Bird	<i>Prunella modularis</i>	Dunnock	
Bird	<i>Regulus regulus</i>	Goldcrest	
Bird	<i>Sitta europaea</i>	Nuthatch	
Bird	<i>Sterna hirundo</i>	Common Tern	
Bird	<i>Sturnus vulgaris</i>	Starling	
Bird	<i>Sylvia atricapilla</i>	Blackcap	
Bird	<i>Sylvia communis</i>	Common Whitethroat	May 2001, May 2005
Bird	<i>Tachybaptus ruficollis</i>	Little Grebe	
Bird	<i>Tringa hypoleucos</i>	Common Sandpiper	Apr-05
Bird	<i>Troglodytes troglodytes</i>	Wren	
Bird	<i>Turdus iliacus</i>	Redwing	
Bird	<i>Turdus merula</i>	Blackbird	
Bird	<i>Turdus philomelos</i>	Song Thrush	
Bird	<i>Turdus pilaris</i>	Fieldfare	
Bird	<i>Turdus viscivorus</i>	Mistle thrush	
Bird	<i>Vanellus vanellus</i>	Lapwing	Flock of 500 Jan 2002
Bumblebee	<i>Bombus hortorum</i>	Small Garden Bumblebee	
Bumblebee	<i>Bombus lapidarius</i>	Red-tailed Bumblebee	

Bumblebee	<i>Bombus pascuorum</i>	Common Carder Bee	
Bumblebee	<i>Bombus pratorum</i>	Early Bumblebee	
		Small	
Butterfly	<i>Aglais urticae</i>	Tortoiseshell	
Butterfly	<i>Anthocharis cardamines</i>	Orange tip	
Butterfly	<i>Celastrinus argiolus</i>	Holly blue	
Butterfly	<i>Colias croceus</i>	Clouded Yellow	Only record September 2000
		Brimstone	
Butterfly	<i>Gonepteryx rhamni</i>	butterfly	
Butterfly	<i>Inachis io</i>	Peacock butterfly	
Butterfly	<i>Lycaena phlaeas</i>	Small copper	Only record May 2003
Butterfly	<i>Maniola jurtina</i>	Meadow Brown	
		Marbled White	Seen regularly South end of Upper meadows.
Butterfly	<i>Melanargia galathea</i>		
Butterfly	<i>Ochlodes venata</i>	Large skipper	
Butterfly	<i>Pararge aegeria</i>	Speckled Wood	
Butterfly	<i>Pieris brassicae</i>	Large White	
		Green-veined	
Butterfly	<i>Pieris napi</i>	White	
Butterfly	<i>Pieris rapae</i>	Small White	
Butterfly	<i>Polygonia c-album</i>	Comma	
Butterfly	<i>Polyommatus icarus</i>	Common Blue	
Butterfly	<i>Pyronia tithonus</i>	Gatekeeper	
Butterfly	<i>Thymelicus sylvestris</i>	Small skipper	Only record July 2001
Butterfly	<i>Vanessa atalanta</i>	Red Admiral	
Butterfly	<i>Vanessa cardui</i>	Painted lady	
Dragon/damselfly	<i>Aeshna grandis</i>	Brown Hawker	
		Banded	
Dragon/damselfly	<i>Calopteryx splendens</i>	Demoiselle	
Dragon/damselfly	<i>Coenagrion puella</i>	Azure Damselfly	
		Common Blue	
Dragon/damselfly	<i>Enallagma cyathigerum</i>	Damselfly	
		Blue-tailed	
Dragon/damselfly	<i>Ischnura elegans</i>	Damselfly	
		White-legged	
Dragon/damselfly	<i>Platycnemis pennipes</i>	Damselfly	
Fungus	<i>Agrocybe cylindracea</i>		
Fungus	<i>Armillaria mellea</i>		
Fungus	<i>Bolbitius vitellinus</i>		
Fungus	<i>Coprinus atrementarius</i>		
Fungus	<i>Coprinus disseminatus</i>		
Fungus	<i>Coprinus micaceus</i>		
Fungus	<i>Coriolus versicolor</i>		
Fungus	<i>Daedaleopsis confragosa</i>		
Fungus	<i>Ganoderma sp</i>		
Fungus	<i>Geastrum striatum</i>		
Fungus	<i>Hebeloma crustuliniforme</i>		
Fungus	<i>Hypholoma fasciculare</i>		
Fungus	<i>Hypoxyton nummularian</i>		
Fungus	<i>Inonotus sp</i>		
Fungus	<i>Lepiota cristata</i>		
Fungus	<i>Meripilus gigantean</i>		

Fungus	<i>Mycena galericulata</i>		
Fungus	<i>Nectria cinnabarina</i>		
Fungus	<i>Oudemansiella radicata</i>		
Fungus	<i>Pluteus cervinus</i>		
Fungus	<i>Rhytisma acerinum</i>		
Fungus	<i>Stereum hirsutum</i>		
Fungus	<i>Stropharia cyanea</i>		
Fungus	<i>Xylaria carpophila</i>		
Fungus	<i>Xylaria polymorpha</i>		
Grass/sedge	<i>Agrostis canina</i>	Velvet bent grass	
Grass/sedge	<i>Agrostis capillaris</i>	Common bent-grass	
Grass/sedge	<i>Agrostis gigantea</i>	Black bent-grass	
Grass/sedge	<i>Agrostis stolonifera</i>	Creeping Bent-grass	
Grass/sedge	<i>Alopecurus geniculatus</i>	Marsh Foxtail	
Grass/sedge	<i>Alopecurus pratensis</i>	Meadow Foxtail	
Grass/sedge	<i>Anisantha sterilis</i>	Barren Brome	
Grass/sedge	<i>Arrhenatherum elatius</i>	False Oat-grass	
Grass/sedge	<i>Avena fatua</i>	Wild Oat	
Grass/sedge	<i>Briza media</i>	Quaking Grass	
Grass/sedge	<i>Bromus hordeaceus</i>	Soft Brome	
		Greater pond sedge or Cyperus sedge ?	
Grass/sedge	<i>Carex riparia or pseudocyperus ?</i>		
Grass/sedge	<i>Cynosurus cristatus</i>	Crested Dog's-tail	
Grass/sedge	<i>Dactylis glomerata</i>	Cock's-foot	
Grass/sedge	<i>Deschampsia cespitosa</i>	Tufted Hair-grass	
Grass/sedge	<i>Elytrigia repens</i>	Common couch	
Grass/sedge	<i>Elytrigia repens</i>	Couch Grass	
Grass/sedge	<i>Festuca arundinacea</i>	Tall Fescue	
Grass/sedge	<i>Festuca gigantea</i>	Giant Fescue	
Grass/sedge	<i>Festuca rubra agg</i>	Red Fescue	
		Floating Sweet-grass	
Grass/sedge	<i>Glyceria fluitans</i>		
Grass/sedge	<i>Holcus lanatus</i>	Yorkshire-fog	
Grass/sedge	<i>Hordeum murinum</i>	Wall Barley	
Grass/sedge	<i>Hordeum secalinum</i>	Meadow Barley	
		Perennial Rye-grass	
Grass/sedge	<i>Lolium perenne</i>		
Grass/sedge	<i>Luzula campestris</i>	Field Woodrush	
		Reed canary grass	
Grass/sedge	<i>Phalaris arundinacea ?</i>		
Grass/sedge	<i>Phleum bertoloni</i>	Lesser Catstail	
Grass/sedge	<i>Phleum pratense</i>	Timothy Grass	
Grass/sedge	<i>Phragmites communis</i>	Common reed	
		Annual Meadow-grass	
Grass/sedge	<i>Poa annua</i>		
		Rough Meadow-grass	
Grass/sedge	<i>Poa trivialis</i>		
Grass/sedge	<i>Trisetum flavescens</i>	Yellow Oat-grass	
Lepidoptera	<i>Abrostola tripartita</i>	Spectacle	Light Trap
Lepidoptera	<i>Acentria ephemerella</i>	Water Veneer	Light Trap
Lepidoptera	<i>Acleris forsskaleana</i>		Light Trap
Lepidoptera	<i>Acrobasis consociella</i>		Light Trap

Lepidoptera	<i>Acronicta aceris</i>	Sycamore	Light Trap
Lepidoptera	<i>Acronicta megacephala</i>	Poplar Grey	Light Trap
Lepidoptera	<i>Acronicta psi</i>	Grey Dagger	Light Trap
Lepidoptera	<i>Agapeta hamana</i>		Light Trap
Lepidoptera	<i>Agonopterix ocellana</i>		Light Trap
Lepidoptera	<i>Agriphila straminella</i>		Light Trap
Lepidoptera	<i>Agriphila tristella</i>		Light Trap
Lepidoptera	<i>Agrotis clavis</i>	Heart and Club	Light Trap
Lepidoptera	<i>Agrotis exclamationis</i>	Heart and Dart	Light Trap
Lepidoptera	<i>Alcis repandata</i>	Mottled Beauty	Light Trap
Lepidoptera	<i>Apamea lithoxylaea</i>	Light Arches	Light Trap
Lepidoptera	<i>Apamea monoglypha</i>	Dark Arches	Light Trap
Lepidoptera	<i>Aphomia sociella</i>	Bee Moth	Light Trap
Lepidoptera	<i>Axylia putris</i>	Flame	Light Trap
Lepidoptera	<i>Batia unitella</i>		Light Trap
Lepidoptera	<i>Biston betularia</i>	Peppered Moth	Light Trap
Lepidoptera	<i>Celypha lacunana</i>		Light Trap
Lepidoptera	<i>Chrysoteuchia culmella</i>	Garden Grass- veneer	Light Trap
Lepidoptera	<i>Clepsis consimilana</i>		Light Trap
Lepidoptera	<i>Cosmia trapezina</i>	Dun-bar	Light Trap
Lepidoptera	<i>Crambus pascuella</i>		Light Trap
Lepidoptera	<i>Crambus perlella</i>		Light Trap
Lepidoptera	<i>Craniophora ligustri</i>	Coronet	Light Trap
Lepidoptera	<i>Deilephila elpenor</i>	Elephant Hawk- moth	Light Trap
Lepidoptera	<i>Diachrysia chrysitis</i>	Burnished Brass Red-barred	Light Trap
Lepidoptera	<i>Ditula angustiorana</i>	Tortrix	Light Trap
Lepidoptera	<i>Drepana falcataria</i>	Pebble Hook-tip	Light Trap
Lepidoptera	<i>Eilema complana</i>	Scarce Footman	Light Trap
Lepidoptera	<i>Eilema griseola</i>	Dingy Footman	Light Trap
Lepidoptera	<i>Eilema lurideola</i>	Common Footman	Light Trap
Lepidoptera	<i>Endothenia quadrimaculana</i>		Light Trap
Lepidoptera	<i>Endotricha flammealis</i>		Light Trap
Lepidoptera	<i>Epiblema uddmanniana</i>	Bramble Shoot Moth	Light Trap
Lepidoptera	<i>Eucosma cana</i>		Light Trap
Lepidoptera	<i>Eurrhynx hortulata</i>	Small Magpie	Light Trap
Lepidoptera	<i>Gypsonoma dealbana</i>		Light Trap
Lepidoptera	<i>Hemithea aestivaria</i>	Common Emerald	Light Trap
Lepidoptera	<i>Hepialus humuli</i>	Ghost Moth	Light Trap
Lepidoptera	<i>Hoplodrina blanda</i>	Rustic Small Yellow	Light Trap
Lepidoptera	<i>Hydrelia flammeolaria</i>	Wave	Light Trap
Lepidoptera	<i>Hypena proboscidalis</i>	Snout Button snout moth	Light Trap
Lepidoptera	<i>Hypena rostralis</i>		Light Trap
Lepidoptera	<i>Idaea aversata</i>	Riband Wave	Light Trap
Lepidoptera	<i>Idaea aversata ab. remutata</i>	Riband Wave [non-banded form]	Light Trap
Lepidoptera	<i>Lacanobia oleracea</i>	Bright-line Brown- eye	Light Trap
Lepidoptera	<i>Laothoe populi</i>	Poplar Hawk- moth	Light Trap

Lepidoptera	<i>Ligdia adustata</i>	Scorched Carpet	Light Trap
Lepidoptera	<i>Lobesia abscisana</i>		Light Trap
Lepidoptera	<i>Lomaspilis marginata</i>	Clouded Border	Light Trap
Lepidoptera	<i>Melanchra persicariae</i>	Dot Moth	Light Trap
Lepidoptera	<i>Mesapamea secalis</i>	Common Rustic	Light Trap
Lepidoptera	<i>Mesoligia furuncula</i>	Cloaked Minor	Light Trap
Lepidoptera	<i>Metzneria lappella</i>		Light Trap
Lepidoptera	<i>Metzneria metzneriella</i>		Light Trap
Lepidoptera	<i>Myelois circumvoluta</i>	Thistle Ermine	Light Trap
		Brown-line Bright	
Lepidoptera	<i>Mythimna conigera</i>	Eye	Light Trap
Lepidoptera	<i>Mythimna ferrago</i>	Clay	Light Trap
Lepidoptera	<i>Mythimna impura</i>	Smoky Wainscot	Light Trap
		Common	
Lepidoptera	<i>Mythimna pallens</i>	Wainscot	Light Trap
Lepidoptera	<i>Naenia typica</i>	Gothic	Light Trap
Lepidoptera	<i>Nemapogon cloacella</i>	Cork Moth	Light Trap
		Lesser Yellow	
Lepidoptera	<i>Noctua comes</i>	Underwing	Light Trap
		Broad-bordered	
Lepidoptera	<i>Noctua fimbriata</i>	Yellow Underwing	Light Trap
		Large Yellow	
Lepidoptera	<i>Noctua pronuba</i>	Underwing	Light Trap
Lepidoptera	<i>Nycteola revayana</i>	Oak Nycteoline	Light Trap
Lepidoptera	<i>Ochropleura plecta</i>	Flame Shoulder	Light Trap
Lepidoptera	<i>Oligia strigilis</i>	Marbled Minor	Light Trap
Lepidoptera	<i>Oligia versicolor</i>	Rufous Minor	Light Trap
Lepidoptera	<i>Opisthograptis luteolata</i>	Brimstone Moth	Light Trap
Lepidoptera	<i>Orthosia cerasi</i>	Common Quaker	Light Trap
Lepidoptera	<i>Pammene fasciana</i>		Light Trap
		Dark Fruit-tree	
Lepidoptera	<i>Pandemis heparana</i>	Tortrix	Light Trap
		Pale Mottled	
Lepidoptera	<i>Paradrina clavipalpis</i>	Willow	Light Trap
Lepidoptera	<i>Peribatodes rhomboidaria</i>	Willow Beauty	Light Trap
Lepidoptera	<i>Phalera bucephala</i>	Buff-tip	Light Trap
		Lesser Swallow	
Lepidoptera	<i>Pheosia gnoma</i>	Prominent	Light Trap
Lepidoptera	<i>Phlyctaenia coronata</i>		Light Trap
Lepidoptera	<i>Phragmatobia fuliginosa</i>	Ruby Tiger	Light Trap
Lepidoptera	<i>Pleuroptya ruralis</i>	Mother of Pearl	Light Trap
Lepidoptera	<i>Recurvaria nanella</i>		Light Trap
Lepidoptera	<i>Scoparia ambigualis</i>		Light Trap
Lepidoptera	<i>Scoparia pyralella</i>		Light Trap
Lepidoptera	<i>Selenia dentaria</i>	Early Thorn	Light Trap
Lepidoptera	<i>Sesia apiformis</i>	Hornet Moth	Light Trap
Lepidoptera	<i>Spilonota ocellana</i>	Bud Moth	Light Trap
Lepidoptera	<i>Stenoptilia pterodactyla</i>		Light Trap
		Round-winged	
Lepidoptera	<i>Thumatha senex</i>	Muslin	Light Trap
Lepidoptera	<i>Tyria jacobaeae</i>	Cinnabar moth	
Lepidoptera	<i>Udea olivalis</i>		Light Trap
Lepidoptera	<i>Watsonalla binaria</i>	Oak Hook-tip	Light Trap
		Setaceous	
		Hebrew	
Lepidoptera	<i>Xestia c-nigrum</i>	Character	Light Trap
Lepidoptera	<i>Xestia xanthographa</i>	Square-spot	Light Trap

		Rustic	
		Water vole	Seen 2000, 2002, 2003, 2004. Not seen and no evidence, 2005
Mammal	<i>Avicola terrestris</i>		
Mammal	<i>Capreolus capreolus</i>	Roe deer	One seen, September 2000
Mammal	<i>Microtus agrestis</i>	Field vole	
Mammal	<i>Muntiacus reevesi</i>	Muntjac	
Mammal	<i>Mustela erminea</i>	Stoat	
Mammal	<i>Mustela vison</i>	Mink	
Mammal	<i>Myotis daubentonii</i>	Daubentons bat	
Mammal	<i>Neomys fodiens</i>	Water shrew	dead
Mammal	<i>Nyctalus noctula</i>	Noctule bat	
		Common	
Mammal	<i>Pipistrellus pipistrellus</i>	Pipistrelle bat	
		Soprano	
Mammal	<i>Pipistrellus pygmaeus</i>	Pipistrelle bat	
Mammal	<i>Rattus norvegicus</i>	Brown rat	
Mammal	<i>Sorex pygmaeus</i>	Pygmy shrew	
Mammal	<i>Talpa europaea</i>	Mole	
Mollusca	<i>Aegopinella nitidula</i>		
Mollusca	<i>Anisus leucostoma</i>		
Mollusca	<i>Anisus vortex</i>		
Mollusca	<i>Arianta arbustorum</i>		
Mollusca	<i>Arion ater agg</i>		
Mollusca	<i>Arion distinctus</i>		
Mollusca	<i>Arion fasciatus</i>		
Mollusca	<i>Arion intermedius</i>		
Mollusca	<i>Candidula gigaxii</i>		
Mollusca	<i>Cepaea nemoralis</i>		
Mollusca	<i>Cernuella virgata</i>		empty shell
Mollusca	<i>Cochlicopa lubrica</i>		empty shells
Mollusca	<i>Deroceras panormitanum</i>		
Mollusca	<i>Deroceras reticulatum</i>		
Mollusca	<i>Discus rotundatus</i>		
			var. <i>laevigata</i> (which lacks the characteristic strong ribbing of this species)
Mollusca	<i>Gyraulus crista</i>		
Mollusca	<i>Helix aspersa</i>		
Mollusca	<i>Limax flavus</i>		
Mollusca	<i>Limax maximus</i>		
Mollusca	<i>Lymnaea peregra</i>		juveniles and egg masses
Mollusca	<i>Monacha cantiana</i>		
Mollusca	<i>Oxychilus draparnaudi</i>		
Mollusca	<i>Oxyloma pfeifferi</i>		dead
Mollusca	<i>Pisidium personatum</i>		dead
Mollusca	<i>Pisidium subtruncatum</i>		
Mollusca	<i>Pupilla muscorum</i>		
Mollusca	<i>Trichia hispida</i>		
Mollusca	<i>Trichia striolata</i>		

Mollusca	<i>Vallonia pulchella</i>	
Mollusca	<i>Valvata piscinalis</i>	
Mollusca	<i>Vitrina pellucida</i>	dead
Mollusca	<i>Viviparus viviparus</i>	dead
Reptile	<i>Natrix natrix</i>	Grass snake
Tree/shrub	<i>Acer canpesttris</i>	Field Maple
Tree/shrub	<i>Acer platanoides</i>	Norway Maple
Tree/shrub	<i>Acer psuedoplatanus</i>	Sycamore
Tree/shrub	<i>Aesculus hippocastanum</i>	Horse Chestnut
Tree/shrub	<i>Betula pendula</i>	Silver birch
Tree/shrub	<i>Castanea sativa</i>	Sweet Chestnut
Tree/shrub	<i>Crataegus monogyna</i>	Hawthorn
Tree/shrub	<i>Fagus sylvatica</i>	Beech
Tree/shrub	<i>Fraxinus excelsior</i>	Ash
Tree/shrub	<i>Hedera helix</i>	Ivy
Tree/shrub	<i>Jugland regia</i>	Walnut
Tree/shrub	<i>Lawson cypress</i>	
Tree/shrub	<i>Latrix deciduas</i>	Larch
Tree/shrub	<i>Pinus slyvestris</i>	Scots Pine
Tree/shrub	<i>Pinus nigra</i>	Corsican Pine
Tree/shrub	<i>Populus alba</i>	White poplar
Tree/shrub	<i>Populus nigra</i>	Black poplar
Tree/shrub	<i>Populus canescens</i>	Grey Poplar
Tree/shrub	<i>Quercus ilex</i>	Holm oak
Tree/shrub	<i>Robinia psendocacia</i>	Robinia
Tree/shrub	<i>Quercus robur</i>	Pedunculate Oak
Tree/shrub	<i>Sambucus nigra</i>	Elder
Tree/shrub	<i>Salix x chrysocoma</i>	Weeping willow
Tree/shrub	<i>Sequoiadendron giganteum</i>	Wellingtonia
Tree/shrub	<i>Tillia x europea</i>	Lime
Vascular plant	<i>Achillea millefolium</i>	Yarrow
Vascular plant	<i>Alliaria petiolata</i>	Garlic Mustard
Vascular plant	<i>Anthriscus sylvestris</i>	Cow Parsley
Vascular plant	<i>Apium nodiflorum</i>	Fool's water cress
Vascular plant	<i>Arum maculatum</i>	Cuckoo Pint
Vascular plant	<i>Bellis perennis</i>	Daisy
Vascular plant	<i>Callitriche platycarpa</i>	Water starwort
Vascular plant	<i>Cardamine pratensis</i>	Cuckooflower
Vascular plant	<i>Carduus acanthoides</i>	Wetted Thistle
Vascular plant	<i>Carduus nutans</i>	Nodding Thistle
Vascular plant	<i>Cerastium fontanum</i>	Common Mouse-ear
Vascular plant	<i>Chenopodium spp</i>	Fat Hen
Vascular plant	<i>Chenopodium spp</i>	Goosefoot spp
Vascular plant	<i>Cirsium arvense</i>	Creeping Thistle
Vascular plant	<i>Cirsium palustre</i>	Marsh Thistle
Vascular plant	<i>Cirsium vulgare</i>	Spear Thistle
Vascular plant	<i>Convolvulus arvensis</i>	Field Bindweed
Vascular plant	<i>Crepis biennis</i>	Rough hawk's-beard
Vascular plant	<i>Elodea canadensis</i>	Canadian pondweed
Vascular plant	<i>Epilobium hirsutum</i>	Greater Willowherb
Vascular plant	<i>Epilobium montanum</i>	Broad-leaf

		Willowherb
Vascular plant	<i>Epilobium parviflora</i>	Hoary Willowherb
Vascular plant	<i>Filipendula Ulmeria</i>	Meadowsweet
Vascular plant	<i>Galium aparine</i>	Cleavers
Vascular plant	<i>Galium verum</i>	Lady's Bedstraw
		Cut-leaved
Vascular plant	<i>Geranium dissectum</i>	Crane's-bill
		Dove's Foot
Vascular plant	<i>Geranium molle</i>	Crane's-bill
Vascular plant	<i>Glechoma hederacea</i>	Ground ivy
Vascular plant	<i>Heracleum sphondylium</i>	Hogweed
Vascular plant	<i>Humulus lupulus</i>	Hop
Vascular plant	<i>Lamium album</i>	White Dead-nettle
		Common
Vascular plant	<i>Lemna minor</i>	duckweed
Vascular plant	<i>Leontodon hispidus</i>	Rough Hawkbit
Vascular plant	<i>Leucanthemum vulgare</i>	Oxeye Daisy
Vascular plant	<i>Leucojum aestivum</i>	Loddon Lily
Vascular plant	<i>Lotus corniculatus</i>	Birdsfoot-trefoil
Vascular plant	<i>Lycopus europaeus</i>	Gipsywort
Vascular plant	<i>Lysimachia nummularia</i>	Creeping Jenny
Vascular plant	<i>Lythrum salicaria</i>	Purple loosestrife
Vascular plant	<i>Medicago lupulina</i>	Black Medic
Vascular plant	<i>Mentha aquatica</i>	Water mint
Vascular plant	<i>Mercurialis perennis</i>	Dog's Mercury
		Water forget-me-not
Vascular plant	<i>Myosotis scorpioides</i>	Water Dropwort
Vascular plant	<i>Oenanthe crocata</i>	Star of Bethlehem
Vascular plant	<i>Ornithogalum angustifolium</i>	Star of Bethlehem
Vascular plant	<i>Pimpinella saxifraga</i>	Burnet Saxifrage
Vascular plant	<i>Plantago lanceolata</i>	Ribwort Plantain
Vascular plant	<i>Plantago major</i>	Great Plantain
Vascular plant	<i>Plantago media</i>	Hoary Plantain
		Creeping
Vascular plant	<i>Potentilla reptans</i>	Cinquefoil
Vascular plant	<i>Primula veris</i>	Cowslip
Vascular plant	<i>Prunella vulgaris</i>	Selfheal
Vascular plant	<i>Prunus spinosa</i>	Blackthorn
		Meadow
Vascular plant	<i>Ranunculus acris</i>	Buttercup
		Bulbous
Vascular plant	<i>Ranunculus bulbosa</i>	Buttercup
		Creeping
Vascular plant	<i>Ranunculus repens</i>	Buttercup
		Celery-leaved
Vascular plant	<i>Ranunculus sceleratus</i>	Buttercup
		Greater yellow
Vascular plant	<i>Rorippa amphibia</i>	cress
Vascular plant	<i>Rubus fruticosus agg</i>	Blackberry
Vascular plant	<i>Rumex acetosa</i>	Common Sorrel
Vascular plant	<i>Rumex conglomeratus</i>	Clustered Dock
Vascular plant	<i>Rumex crispus</i>	Curled Dock
		Broad-leaved
Vascular plant	<i>Rumex obtusifolia</i>	Dock
Vascular plant	<i>Scrophularia auricularia</i>	Water Figwort
Vascular plant	<i>Senecio jacobea</i>	Common Ragwort
Vascular plant	<i>Sinapis arvensis</i>	Charlock

Vascular plant	<i>Sisymbrium officinale</i>	Hedge Mustard
Vascular plant	<i>Solanum dulcamara</i>	Bittersweet
Vascular plant	<i>Sonchus arvensis</i>	Perennial Sow-thistle
		Common
Vascular plant	<i>Stellaria media</i>	Chickweed
Vascular plant	<i>Symphytum officinale</i>	Common comfrey
Vascular plant	<i>Taraxacum officinale agg</i>	Dandelion
Vascular plant	<i>Trifolium dubium</i>	Lesser Trefoil
Vascular plant	<i>Trifolium pratense</i>	Red Clover
Vascular plant	<i>Trifolium repens</i>	White Clover
Vascular plant	<i>Urtica dioica</i>	Stinging Nettle
Vascular plant	<i>Veronica beccabunga</i>	Brooklime
		Pink Water
Vascular plant	<i>Veronica catenata</i>	Speedwell
		Germander
Vascular plant	<i>Veronica chamaedrys</i>	Speedwell
		Thyme-leaved
Vascular plant	<i>Veronica serpyllifolia</i>	Speedwell
Vascular plant	<i>Viola odorata</i>	Sweet Violet
Woodlouse	<i>Androniscus dentiger</i>	Rosy woodlouse

## The National Vegetation Classification (NVC)

The NVC is derived from quantitative floristic records compiled from 35,000 vegetation samples taken across the British Isles. Multivariate classification techniques are used to identify discrete plant communities (Rodwell 1992).

The quantitative data has two components: frequency and abundance. **Frequency** refers to how often a plant is found in a series of samples taken from each distinct community (3 samples (quadrates) in the surveys below). **Abundance** is recorded using the DOMIN values which estimates percentage cover on a scale of 1-10.

Each distinct plant community is assigned a code consisting of one or two letters followed by a number. The letters identify the broad community type (e.g. MG for mesotrophic grassland) and the number defines the actual specific community (e.g. mesotrophic grassland is split into 13 communities, MG1 to MG13).

### Botanically rich mesotrophic grassland area: NVC (3 sets of 2x2m quadrates) - 8/7/99

Scientific name	Common name	DOMIN values			Freq	DOMIN Range
		1	2	3		
<b>Grasses, etc</b>						
<i>Festuca rubra</i> agg.	Red Fescue	6	6	6	V	6
<i>Agrostis stolonifera</i>	Creeping Bent-grass	5	4	5	V	4-5
<i>Arrhenatherum elatius</i>	False Oat-grass	4	5	4	V	4-5
<i>Dactylis glomerata</i>	Cock's-foot	4	3	4	V	3-4
<i>Trisetum flavescens</i>	Yellow Oat-grass	4	3	4	V	3-4
<i>Lolium perenne</i>	Perennial Rye-grass	3	3	3	V	3
<i>Holcus lanatus</i>	Yorkshire-fog	3			I	3
<i>Poa trivialis</i>	Rough Meadow-grass		3		I	3
<i>Briza media</i>	Quaking Grass	2			I	2
<i>Phleum bertolonii</i>	Lesser Cat's-tail	2			I	2
<i>Luzula campestris</i>	Field Woodrush	2			I	2
<i>Cynosurus cristatus</i>	Crested Dog's-tail				I	1
<i>Hordeum murinum</i>	Wall Barley			1	I	1
<b>Other Flowering Plants:</b>						
<b>Forbs</b>						
<i>Trifolium repens</i>	White Clover	3	4	4	V	3-4
<i>Medicago lupulina</i>	Black Medic	2	4	4	V	2-4
<i>Plantago media</i>	Hoary Plantain	1	4	1	V	1-4
<i>Achillea millefolium</i>	Yarrow	3	3	3	V	3
<i>Trifolium pratense</i>	Red Clover	3	3	3	V	3
<i>Crepis biennis</i>	Rough hawk's-beard	2	2	3	V	2-3
<i>Senecio jacobaea</i>	Common Ragwort	1	2	1	V	1-2
<i>Cirsium arvense</i>	Creeping Thistle	3	2		III	2-3
<i>Leucanthemum vulgare</i>	Oxeye Daisy	2		3	III	2-3
<i>Prunella vulgaris</i>	Selfheal		3	2	III	2-3
<i>Cerastium fontanum</i>	Common Mouse-ear	2		2	III	2
<i>Taraxacum</i> agg.	Dandelion	2		2	III	2
<i>Veronica chamaedrys</i>	Germander Speedwell	2	2		III	2
<i>Cirsium vulgare</i>	Spear Thistle	1		2	III	1-2
<i>Geranium dissectum</i>	Cut-leaved Crane's-bill	1	1		III	1
<i>Rumex acetosa</i>	Common Sorrel	1		1	III	1
<i>Plantago lanceolata</i>	Ribwort Plantain		3		I	3
<i>Galium verum</i>	Lady's Bedstraw	2			I	2
<i>Geranium molle</i>	Dove's Foot Crane's-bill		1		I	1
<i>Primula veris</i>	Cowslip		1		I	1
<i>Trifolium dubium</i>	Lesser Trefoil	1			I	1
	Veg. Height (cm)	15	30	40		15-40

Other species of note seen						
<i>Leontodon hispidus</i>	Rough Hawkbit					
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil					
<i>Pimpinella saxifraga</i>	Burnet Saxifrage					

**Area with impeded drainage: NVC - (3 sets of 2x2m quadrates) - 8/7/99**

Scientific name	Common name	DOMIN values			Freq	DOMI N Range
		1	2	3		
<b>Grasses, etc</b>						
<i>Alopecurus geniculatus</i>	Marsh Foxtail	8	6	8	V	6-8
<i>Glyceria fluitans</i>	Floating Sweet-grass	3	5	4	V	3-5
<i>Agrostis stolonifera</i>	Creeping Bent-grass	3	3	3	V	3
<i>Poa trivialis</i>	Rough Meadow-grass	3			I	3
<i>Deschampsia cespitosa</i>	Tufted Hair-grass	1			I	1
<b>Other Flowering Plants: Forbs</b>						
<i>Lysimachia nummularia</i>	Creeping Jenny	4	4	5	V	4-5
<i>Plantago major</i>	Great Plantain	4	4	4	V	4
<i>Ranunculus repens</i>	Creeping Buttercup	4	4	4	V	4
<i>Rumex conglomeratus</i>	Clustered Dock	1	2	2	V	1-2
<i>Veronica beccabunga</i>	Brooklime		2	3	III	2-3
<i>Epilobium parviflora</i>	Hoary Willowherb		1	2	III	1-2
<i>Cirsium arvense</i>	Creeping Thistle			2	I	2
<i>Epilobium montanum</i>	Broad-leaved Willowherb		2		I	2
<i>Veronica catenata</i>	Pink Water Speedwell			1	I	1
	Bare Ground (%)	<5	<5	<5		<5%
	Veg. Height (cm)	40	60	40		40-60

**Pond margins: NVC (3 sets of 2x2m quadrates) - 8/7/99**

Scientific name	Common name	DOMIN values			Freq	DOMI N Range
		1	2	3		
<b>Grasses, etc</b>						
<i>Glyceria fluitans</i>	Floating Sweet-grass	5	5	5	V	5
<i>Agrostis stolonifera</i>	Creeping Bent-grass	5	3	3	V	3-5
<i>Carex sp. ?otrubae?</i>	Sedge		3	3	III	3
<i>Alopecurus geniculatus</i>	Marsh Foxtail			2	I	2
<b>Other Flowering Plants: Forbs</b>						
<i>Veronica beccabunga</i>	Brooklime	6	4	5	V	4-6
<i>Lysimachia nummularia</i>	Creeping Jenny	3	6	2	V	2-6
<i>Plantago major</i>	Great Plantain	4	3	4	V	3-4
<i>Ranunculus sceleratus</i>	Celery-leaved Buttercup	2	2	4	V	2-4
<i>Rumex conglomeratus</i>	Clustered Dock	3	2	2	V	2-3
<i>Lemna minor</i>	Duckweed	2	3	2	V	2-3
<i>Veronica catenata</i>	Pink Water Speedwell	2	2	3	V	2-3
<i>Ranunculus repens</i>	Creeping Buttercup	3		4	III	3-4
<i>Chenopodium sp.</i>	Fat Hen	3	2		III	2-3
<i>Cardamine pratensis</i>	Cuckoo Flower	2	3		III	2-3
<i>Urtica dioica</i>	Stinging Nettle	2	1		III	1-2
<i>Rumex obtusifolia</i>	Broad-leaved Dock	2			I	2
<i>Cirsium arvense</i>	Creeping Thistle			2	I	2
	Bare Ground (%)	50	40	30		30-50
	Veg. Height (cm)	40	30	40		30-40