

APPENDIX 6A: FLORA SPECIES LISTS

Improved Agricultural Grassland (GA1)	
<i>Cirsium arvense</i>	<i>Creeping thistle</i>
<i>Dactylis glomerata</i>	<i>Cock's-foot</i>
<i>Daucus carotta</i>	<i>Wild carrot</i>
<i>Festuca ovina</i>	<i>Sheep's fescue</i>
<i>Geranium molle</i>	<i>Dove's foot cranesbill</i>
<i>Juncus effusus</i>	<i>Soft rush</i>
<i>Juncus inflexus</i>	<i>Hard rush</i>
<i>Lolium perenne</i>	<i>Perennial rye-grass</i>
<i>Plantago lanceolata</i>	<i>Ribwort plantain</i>
<i>Plantago major</i>	<i>Ribwort plantain</i>
<i>Ranunculus repens</i>	<i>Creeping buttercup</i>
<i>Rubus fruticosus</i> agg.	<i>Bramble</i>
<i>Salix caprea</i>	<i>Goat willow</i>
<i>Senecio jacobaea</i>	<i>Ragwort</i>
<i>Stellaria media</i>	<i>Common chickweed</i>
<i>Taraxacum</i> spp.	<i>Dandelion</i>
<i>Trifolium pratense</i>	<i>White clover</i>
<i>Trifolium repens</i>	<i>Red clover</i>
<i>Ulex europaeus</i>	<i>Gorse</i>
<i>Vicia cracca</i>	<i>Common vetch</i>
<i>Vicia sativa</i>	<i>Bush vetch</i>

Amenity Grassland (GA2)	
<i>Bellis perennis</i>	<i>Daisy</i>
<i>Dactylis glomerata</i>	<i>Cock's-foot</i>
<i>Lolium perenne</i>	<i>Perennial rye grass</i>
<i>Plantago lanceolata</i>	<i>Ribwort plantain</i>
<i>Poa annua</i>	<i>Annual meadowgrass</i>
<i>Ranunculus repens</i>	<i>Creeping buttercup</i>
<i>Stellaria media</i>	<i>Common chickweed</i>
<i>Trifolium pratense</i>	<i>White clover</i>
<i>Trifolium repens</i>	<i>Red clover</i>

Hedgerows (WL1)	
<i>Betula pendula</i>	<i>Silver birch</i>
<i>Chamaecyparis lawsoniana</i>	<i>Lawson's cypress</i>
<i>Cotoneaster</i> spp.	<i>Cotoneaster</i>
<i>Crataegus monogyna</i>	<i>Hawthorn</i>
<i>Cupressocyparis leylandii</i>	<i>Leyland cypress</i>
<i>Daucus carotta</i>	<i>Wild carrot</i>
<i>Eucalyptus</i> spp.	<i>Eucalyptus</i>
<i>Fraxinus excelsior</i>	<i>Ash</i>
<i>Geranium robertianum</i>	<i>Herb Robert</i>
<i>Hedera helix</i>	<i>Ivy</i>
<i>Heracleum sphondylium</i>	<i>Hogweed</i>
<i>Prunus spinosa</i>	<i>Blackthorn</i>
<i>Prunus</i> spp.	<i>Cherry</i>
<i>Rubus fruticosus</i> agg.	<i>Bramble</i>
<i>Salix caprea</i>	<i>Goat willow</i>
<i>Salix fragilis</i>	<i>Crack willow</i>
<i>Sambucus nigra</i>	<i>Elder</i>
<i>Ulex europaeus</i>	<i>Gorse</i>
<i>Ulmus glabra</i>	<i>Elm</i>
<i>Urtica dioica</i>	<i>Nettle</i>

Treelines (WL2)	
<i>Cupressocyparis leylandii</i>	<i>Leyland cypress</i>

Immature woodland (WS2)	
<i>Alnus glutinosa</i>	<i>Alder</i>
<i>Pinus sylvestris</i>	<i>Scots pine</i>
<i>Populus</i> spp.	<i>Poplars</i>
<i>Quercus robur</i>	<i>Sessile oak</i>
<i>Salix</i> spp.	<i>Willows</i>

Drainage ditches (FW4)	
<i>Cirsium vulgare</i>	Spear thistle
<i>Epilobium angustifolium</i>	Rosebay willowherb
<i>Plantago major</i>	Ribwort plantain
<i>Rorippa nasturtium-aquaticum</i>	Watercress
<i>Rumex obtusifolius</i>	Broad leaf dock
<i>Taraxacum spp.</i>	Dandelion
<i>Veronica anagallis-aquatica</i>	Water veronica

Buildings and artificial surfaces (BL3)	
<i>Taraxacum spp.</i>	Dandelion
<i>Buddleja davidii</i>	Butterfly busy
<i>Cirsium spp.</i>	Thistles
<i>Hieracium spp.</i>	Hawkweed
<i>Rubus fruticosus agg.</i>	Bramble
<i>Rumex spp.</i>	Docks
<i>Senecio jacobaea</i>	Ragwort
<i>Urtica dioica</i>	Nettle

Spoil and bare ground (ED3)	
<i>Chenopodium bonus-henricus</i>	Good king henry
<i>Cirsium spp.</i>	Thistles
<i>Euphorbia spp.</i>	Spurge
<i>Fumaria officinalis</i>	Common fumitory
<i>Hieracium spp.</i>	Hawkweed
<i>Rumex obtusifolius</i>	Broad leaved dock
<i>Senecio vulgaris</i>	Groundsel
<i>Sinapsis arvensis</i>	Charlock
<i>Taraxacum spp.</i>	Dandelion
<i>Urtica dioica</i>	Nettle

Recolonizing bare ground (ED3)	
<i>Bellis perennis</i>	Daisy
<i>Capsella bursa-pastoris</i>	Shepherd's purse
<i>Cardamine hirsuta</i>	Hairy bittercress
<i>Cardamine pratensis</i>	Cuckoo-flower
<i>Chenopodium bonus-henricus</i>	Good king henry
<i>Cirsium arvense</i>	Creeping thistle
<i>Dactylis glomerata</i>	Cock's-foots
<i>Daucus carota</i>	Wild carrot
<i>Galium aparine</i>	Cleavers
<i>Geranium molle</i>	Dove's foot cranesbill
<i>Glechoma hederacea</i>	Ground ivy
<i>Mercurialis annua</i>	Annual mercury
<i>Petasites fragrans</i>	Winter heliotrope
<i>Plantago lanceolata</i>	Ribwort plantain
<i>Plantago major</i>	Greater plantain
<i>Potentilla reptans</i>	Creeping cinquefoil
<i>Rumex acetosa</i>	Sorrel
<i>Rumex obtusifolius</i>	Broad leaf dock
<i>Senecio jacobaea</i>	Ragwort
<i>Sinapsis arvensis</i>	Charlock
<i>Stellaria media</i>	Common chickweed
<i>Taraxacum spp.</i>	Dandelion
<i>Trifolium repens</i>	White clover
<i>Veronica chamaedrys</i>	Germander speedwell

APPENDIX 6B: CRITERIA FOR ASSESSING ECOLOGICAL VALUE OF HEDGEROWS

(from the NRA's Guidelines for Assessment of Ecological Impacts of National Roads Schemes (2006))

HIGH VALUE, LOCAL IMPORTANCE

- Average shrub canopy height over 5m.
- Average width at ground level over 4m.
- Dense ground cover.
- Mature standard trees more than 5 per 50 m length.
- Gaps less than 10% per 50 length.
- End connections to greater than 4 other hedges.
- Dominant tree and shrub species mainly native.
- Diversity of greater than 8 tree and shrub species.
- Typical diverse woodland ground flora present.
- Associated stream or drain with permanent water.

MODERATE VALUE, LOCAL IMPORTANCE

- Average canopy height 2 to 5m.
- Average width at ground 2 to 4m.
- Patchy ground cover.
- Mature standard trees 1 to 5 per 50m length.
- Gaps between 10-30% per 50m length.
- End connections to 2 to 4 other hedges.
- Dominant tree and shrub species mixed native and non-native.
- Diversity of 5 to 8 tree and shrub species.
- Some woodland ground flora species present.
- Parallel stream or drain with seasonal water only.

LOW VALUE, LOCAL IMPORTANCE

- Average canopy height less than 2m.
- Average width at ground less than 2m.
- Little or no ground cover.
- No mature standard trees.
- Gaps more than 30% per 50m length.
- End connections to less than 2 other hedges.
- Dominant tree and shrub species mainly non-native.
- Diversity of less than 5 tree and shrub species.
- No woodland ground flora species present.
- No parallel stream or drain.