

Biodiversity Duty: Vascular Plant Survey of National Wool Museum, Drefach



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Introduction

From 1 October 2006, all public authorities in England and Wales have a duty to have regard to the conservation of biodiversity in exercising their functions (Section 40 of the Natural Environment and Rural Communities Act 2006). As part of the Museum's response to this legislation, biodiversity audits are being carried out at a series of its sites.

In this report, a draft vascular plant list is presented from a survey of the grounds of the National Wool Museum, Drefach in 2009.

Methods

The survey was carried out by Tim Rich on 2 April, 8 May and 9 September 2009 in fine weather. The area surveyed is shown in Figure 1. A few specimens of taxa difficult to identify were collected for later determination. Obviously planted taxa such as the Garden roses were not recorded, with a few exceptions. Nomenclature follows C.A. Stace (1997), *New Flora of the British Isles*, Cambridge University Press.

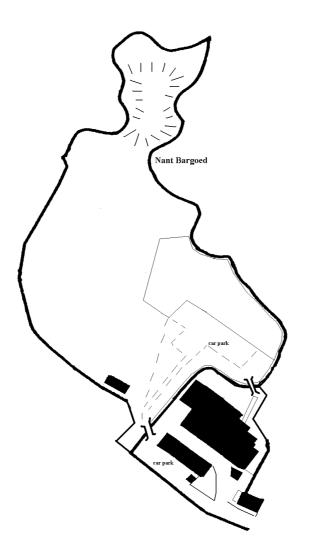


Figure 1. Boundary of area surveyed, National Wool Museum.

Results

The plant species recorded are listed in Table 1.

TABLE 1. VASCULAR PLANTS RECORDED AT DREFACH 2009. Alien species not native in the British Isles or introduced at this site are marked with an asterisk \ast .

Latin name	Vernacular name	Notes
Acer pseudoplatanus *	Sycamore	Rare as tree by Nant Bargod and occasional seedlings
Achillea millefolium	Yarrow	Occasional in meadow and on riverside rocks by vehicle bridge, by front entrance
Adoxa moschatellina	Moschatel	Rare on bank of Nant Bargod by footbridge
Aesculus hippocastanum *	Horse Chestnut	Sapling 1m tall in meadow, south edge
Agrostis canina	Velvet Bent	Damp patch on side of meadow
Agrostis capillaris	Common Bent	Dryer part of meadow
Agrostis gigantea	Black Bent	Common on tummock, probably elsewhere too
Agrostis stolonifera	Creeping Bent	Wetter part of old overflow channel in meadow
Ajuga reptans	Bugle	Occasional in grassland
Alliaria petiolata	Garlic Mustard	Occasional on shaded banks by Nant Bargod
Allium ursinum	Ransoms	Frequent on shaded banks by Nant Bargod and in
		flower beds by entrance
Alnus glutinosa	Alder	Frequent by Nant Bargod
Alopecurus pratensis	Meadow Foxtail	Frequent in meadow and sheep field
Anemone nemorosa	Wood Anemone	Frequent on banks of Nant Bargod
Angelica sylvestris	Wild Angelica	Damp areas of meadow, and on northern tummock
Anthoxanthum odoratum	Sweet Vernal-grass	Frequent
Anthriscus sylvestris	Cow Parsley	Occasional on banks of Nant Bargod, rare on edge of meadow
Apium nodiflorum	Fool's Watercress	Small patch in mill leat
Arctium minus	Burdock	Rare on banks of Nant Bargod
Arrhenatherum elatius	False Oat-grass	Occasional in meadow and by Nant Bargod
Asplenium trichomanes	Maidenhair Spleenwort	Occasional; building by vehicle bridge, rocks by
_	_	Nant Bargod, wall of kitchen garden, mill leat wall
Athyrium filix-femina	Lady Fern	1 clump on Nant Bargod at corner below footbridge, and by vehicle bridge, and grassland on north side of buildings
Atriplex sp.	Orache	Young plants on shingle below footbridge, gone by autumn
Barbarea vulgaris	Wintercress	Path by car park
Bellis perennis	Daisy	Occasional in lawns and meadow
Berberis thunbergii *	Thunberg's Burberry	Hedges at entrance
Bromopsis ramosa	Wood-brome	Bank of Nant Bargod by footbridge
Buddleja davidii *	Butterfly Bush	One clump on bank of Nant Bargod by vehicle bridge (cut down in summer), one west of footbridge
Callitriche brutia	Intermediate Water -starwort	Mill Lent
Callitriche sp.	Water-starwort	Abundant in mill leat
Calystegia cf sepium	Hedge Bindweed	Many vegetative plants in meadow
Calystegia pulchra*	Hairy Bindweed	Fence near footbridge
Calystegia sp.	Bindweed	Vegetative plants frequent in meadow
Cardamine flexuosa	Wavy Bittercress	Occasional in meadow and on banks of Nant Bargod
Cardamine hirsuta	Hairy Bittercress	Occasional, near buildings
Cardamine pratensis	Cuckoo Flower	Frequent in meadow, especially in wet areas

Carex flacca	Glaucous Sedge	Occasional in wet meadow
Carex ovalis	Brown Sedge	Rare in overflow channel
Carex pendula	Pendulous Sedge	One large clump on bank of Nant Bargod below
1		vehicle bridge
Carex remota	Remote Sedge	Rare, on bank of Nant Bargod and top west edge
		of meadow
Centaurea nigra	Knapweed	Occasional in meadow
Cerastium fontanum	Mouse-ear	Rare on bank of Nant Bargod
Cerastium glomeratum	Sticky Mouse-ear	Banks of Nant Bargod by vehicle bridge
Chrysosplenium oppositifolium	Opposite-leaved Golden Saxifrage	Rare on banks of Nant Bargod
Circaea lutetiana	Enchanter's Nightshade	Bank of Nant Bargod near footbridge
Cirsium arvense	Creeping Thistle	Occasional in meadow, one large area by Nant
		Bargod
Cirsium palustre	Marsh Thistle	Frequent in meadow
Cirsium vulgare	Spear Thistle	Rare in meadow, and entrance drive
Conyza sp. *	Fleabane	Seedling
Corylus avellana	Hazel	Occasional by Nant Bargod and in hedge by car park
Crataegus monogyna	Hawthorn	Hedge by car park, and occasional by Nant Bargod and in meadow hedges
Crocosmia x crocosmiiflora *	Montbretia	1 clump by Nant Bargod by footbridge
Cvmbalaria muralis	Ivy-leaved Toadflax	Rock by Nant Bargod and bank of leat
Dactylis glomerata	Cock's-foot grass	Frequent
Deschampsia cespitosa	Tufted Hair-grass	Rare on western edge of meadow
Digitalis purpurea	Foxglove	Rare in hedge by drying hut, and by Nant Bargod
Dipsacus fullonum	Teasel	Frequent around buildings, rare in meadow
Dryopteris affinis	Scaly Male Fern	Bank of Nant Bargod by mill
Dryopteris dilatata	Broad Buckler-fern	Rare by Nant Bargod (2 clumps), 1 clump on bank
• •		by drying hut
Dryopteris filix-mas	Male Fern	1 clump in hedge by car park, 1 clump on
		meadow edge near drying hut
Epilobium ciliatum*	American Willowherb	Rare by Nant Bargod and in main meadow
Epilobium hirsutum	Great Willowherb	Rare on seepage zone at western edge of meadow,
		and by Nant Bargod
Epilobium montanum	Broad-leaved Willowherb	Kitchen Garden
Epilobium obscurum	Short-fruited Willowherb	Occasional in main meadow
Epilobium parviflorum	Hoary Willowherb	Occasional in grassland
Erophila verna sensu stricto	Whitlowgrass	Rare on path by footbridge
Eupatorium cannabinum	Hemp Agrimony	Rare by Nant Bargod and in main meadow
Euphorbia peplis	Pretty Spurge	Path by footbridge
Fallopia japonica *	Japanese Knotweed	Occasional clumps by Nant Bargod
Festuca rubra	Red Fescue	Occasional in grassland
Filipendula ulmaria	Meadowsweet	Occasional in wetter areas of meadow
Fraxinus excelsior	Ash	Occasional in hedges and by Nant Bargod
Galanthus nivalis *	Snowdrop	Frequent by Nant Bargod in spring
Galeopsis tetrahit sensu stricto	Hemp Nettle	Rare on tummock
Galium aparine	Goosegrass	Occasional by Nant Bargod, and hedge by car park
Galium palustre	Marsh Bedstraw	Occasional in wetter parts of meadow, and front lawn
Geranium dissectum	Cut-leaved Crane's-bill	Bank of Nant Bargod near vehicle bridge
Geranium robertianum	Herb Robert	Occasional, near buildings
Geum urbanum	Herb Bennett	Occasional by Nant Bargod and near buildings
Glechoma hederacea	Ground Ivy	Occasional in grassland and by Nant Bargod

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Poa annua	Annual Meadow-grass	Occasional in grassland
Poa trivialis	Rough-stalked Meadow-grass	Frequent in meadow
Polypodium interjectum	Intermediate Polypody	Frequent on wall by car park, rare by Nant Bargod
Polystichum setiferum	Soft Shield-fern	Banks of Nant Bargod by vehicle bridge
Potentilla anserina	Silverweed	Occasional in wetter parts of meadow
Potentilla cf. anglica	Trading Tormentil	Bank of Nant Bargod
Potentilla reptans	Creeping Cinquefoil	Rare by Nant Bargod, and on northern tummock
Potentilla sterilis	Barren Strawberry	Rare by Nant Bargod, front garden
Potentilla x mixta	Hybrid Cinquefoil	Small tummock
Primula vulgaris	Primrose	Planted in garden, rare by overflow channel and in
		western hedge
Prunella vulgaris	Self-heal	Occasional in grassland and by Nant Bargod
Prunus domestica *	Plum	Frequent in hedge by drying hut
Prunus spinosa	Blackthorn	Hedges around meadow
Pulicaria dysenterica	Fleabane	Sheep meadow and main meadow, several patches
Pulmonaria officinalis *	Lungwort	Top of drainage channel
Quercus robur	Oak	Rare in hedges, occasional seedlings present in
		grassland
Ranunculus acris	Meadow Buttercup	Occasional in meadow
Ranunculus ficaria	Lesser Celandine	Locally abundant in spring by Nant Bargod and in
v		meadow
Ranunculus repens	Creeping Buttercup	Abundant in grassland
Ribes rubrum	Red Current	Two clumps by Nant Bargod
Ribes uva-crispa *	Gooseberry	1 clump on rocks of Nant Bargod by mill
Rosa arvensis	Field Rose	Rare by Nant Bargod
Rosa canina	Dog Rose	Rare by Nant Bargod and on northern tummock
Rubus fruticosus	Bramble	Frequent by hedges and Nant Bargod
Rubus idaeus	Raspberry	1 clump on bank of Nant Bargod by vehicle
		bridge, and another near footbridge
Rumex acetosa	Sorrel	Occasional in meadow
Rumex crispus	Curled Dock	Rare in Meadow
Rumex obtusifolius	Broad-leaved Dock	Frequent in meadow, abundant in sheep field
Rumex sanguineus	Wood Dock	Occasional by Nant Bargod
Sagina procumbens	Pearlwort	Occasional near buildings
Salix caprea	Goat Willow	Fence near vehicle bridge
Salix cinerea	Grey Willow	Occasional on banks of Nant Bargod
Sambucus nigra	Elder	Rare by footbridge, and hedge at front
Scrophularia auriculata	Water Figwort	Rare by electricity box
Scrophularia nodosa	Figwort	Fence near vehicle bridge, and in meadow
Senecio aquaticus	Marsh Ragwort	Occasional in grassland
Senecio iqualicus Senecio jacobaea	Ragwort	Occasional in grassland
Senecio jucobaea Senecio vulgaris	Groundsel	Rare near buildings
Silene dioica	Red Campion	Frequent by Nant Bargod
Solanum dulcamara	Woody Nightshade	Banks of Nant Bargod by vehicle bridge, and by
зошнит инситита	Woody Nightshade	western hedge
Sonchus asper	Prickly Sowthistle	Rare by Nant Bargod
Sonchus oleraceus	Sowthistle	Rare near buildings
Stachys palustris	Marsh Woundwort	Overflow channel
Stachys sylvatica	Hedge Woundwort	Rare by Nant Bargod
Stellaria graminea	Lesser Stitchwort	Occasional in grassland
Stellaria holostea	Greater Stitchwort	Bank of Nant Bargod by sheep field
Stellaria media	Chickweed	Rare by Nant Bargod
		Damp grassland
Stellaria uliginosa	Bog Stitchwort	
Tanacetum vulgare	Tansy	Frequent in meadow and by Nant Bargod

Taraxacum spp.	Dandelion	Frequent; material awaits determination
Trifolium dubium	Lesser Hop-trefoil	Occasional in grassland
Trifolium pratense	Red Clover	Rare in meadow
Trifolium repens	White Clover	Occasional in grassland
Tussilago farfara	Colt's-foot	Rare by top of overflow channel
Umbilicus rupestris	Navelwort	Front car park wall
Urtica dioica	Nettle	Occasional, abundant at north end of tummock
Valeriana officinalis	Valerian	Rare in wet meadow
Veronica arvensis	Field Speedwell	Bank of Nant Bargod near vehicle bridge
Veronica beccabunga	Brooklime	Occasional by Nant Bargod
Veronica chamaedrys	Germander Speedwell	Bank of Nant Bargod
Veronica filiformis	Slender Speedwell	Occasional by Nant Bargod
Veronica hederifolia subsp. lucorum	Ivy-leaved Speedwell	Frequent by Nant Bargod
Veronica montana	Wood Speedwell	Rare by Nant Bargod
Veronica serpyllifolia	Thyme-leaved Speedwell	Rare by Nant Bargod, grass by car park
Vicia segetalis	Common Vetch	Rare in kitchen garden
Vinca major *	Greater Periwinkle	1 clump on rocks by Nant Bargod by mill

Discussion

A total of 195 species have been recorded to date, of which 24 (12%) are not native to the British Isles. Dandelion species await determination.

Overall the sites is quite diverse with a nice woodland flora along the stream, and some nice developing wetland and grassland flora in the meadow. Most of the plants are relatively common and widespread, and there are no species of particular conservation importance.

The main improvement to the flora of the site would be removal of the invasive alien species Japanese Knotweed and Himalayan Balsam. Japanese Knotweed is currently only a small problem with a few clumps along the Nant Bargod, but could soon become well established and difficult to eradicate. Himalayan Balsam is already dominant along the Nant Bargod and may be excluding other species; it could be reduced by repeatedly pulling up young plants in the spring before they seed, but it would re-establish from seed elsewhere along the riverbanks in the area.



An abundance of Himalayan Balsam along the riverbank

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