

The Wild Flowers of Upper Teesdale

Naturetrek Tour Report

1 - 4 July 2016



Hay meadows at Cronkley by Terry Hammond



Clients at Cetry Bank by Terry Hammond



Clients on Cronkley Bridge



Wild Thyme (*Thymus polytrichus*)

Report compiled by Dawn Nelson
Images courtesy of Terry Hammond and Dawn Nelson



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Summary

Six clients enjoyed the delights of this very special botanically rich and beautiful area over a long weekend in July. The landscape consists of fells, becks and the majestic River Tees tumbling over waterfalls and rocks; add to this an abundance of drystone-walled meadows and white painted farms and barns. This in itself would be enough, but here we can add a unique combination of geology and climate combined with continuation of traditional farming techniques that enhance the biodiversity of the flora, especially, and other wildlife too. The colourful road verges have Meadow Crane's-bill (*Geranium pratense*) and the elegant Melancholy Thistle (*Cirsium heterophyllum*), as well as Sweet Cicely (*Myrrhis odorata*). Hay meadows abound with Yellow Rattle (*Rhinanthus minor*), Ragged-robin (*Silene (Lychnis) flos-cuculi*) and Greater Burnet (*Sanguisorba officinalis*); in a few very special places, there are truly rare and dainty alpinists, such as Alpine Bartsia (*Bartsia alpina*), Yellow Saxifrage (*Saxifraga aizoides*) and Spring Sandwort (*Minuartia verna*).

Highlights for this year were an abundance of orchids; we saw both species of Butterfly Orchids, two species of Fragrant Orchids, Northern and Early Marsh-orchids as well as Heath and Common Spotted-orchids and many *Dactylorhiza* hybrids.

Add to all that a comfortable hotel, with wonderful food and good company, what more could we want? Even the rain held off most of the time and we enjoyed all of this in sunshine.

Day 1

Friday 1st July

Bowlees and banks of the River Tees near Wynch Bridge

Viviparous Fescue (*Festuca vivipara*) was found and closely examined; nearby were the pale yellow flowers of Mouse-ear Hawkweed (*Pilosella officinarum*), and darker yellow Shrubby Cinquefoil (*Potentilla fruticosa*) was seen below us, back downstream.

We met up as planned and were soon off to Bowlees Carpark and from there through the meadows to the River Tees at Wynch Bridge. We noted Good King-Henry (*Chenopodium bonus-henricus*) and Biting Stonecrop (*Sedum acre*) along the way.

On arrival at the river, we first explored the rocky area immediately below Low Force, finding Mountain Everlasting (*Antennaria dioica*) and Dwarf Goldenrod (*Solidago vigeana* subsp. *minuta*) as well as a good view of a Spotted Flycatcher. At this point we were distracted by a paramedic on foot, and a helicopter overhead, both looking for someone who had fallen into the river about 700m up stream.

We thought it best to head downstream to see the Rock Whitebeam (*Sorbus rupicola*) and other floral goodies which included Common Spotted-orchids (*Dactylorhiza fuchsii*) and Northern Marsh-orchids (*Dactylorhiza purpurella*) and the hybrid between them, which is quite frequent here, showing the mixed characteristics of its parents. A raptor was heard but we were sadly unable to see or identify it.

The rain that had been threatening disappeared and we were blessed with glorious sunshine in which to admire Meadow Crane's-bill (*Geranium pratense*), Devils-bit Scabious (*Succisa pratensis*) and Alpine Bistort (*Persicaria vivipara*) on a grassy area beside the river. Heading back up stream we found elegant Melancholy Thistle (*Cirsium heterophyllum*). Our next distraction was a group of kayakers shooting the rapids, which was exciting to watch; further on we examined some Viviparous Fescue (*Festuca vivipara*) and Glaucous Northern Dog-rose (*Rosa caesia* subsp. *vosagiaca*). Shrubby cinquefoil (*Potentilla fruticosa*) was seen below us, on the riverside rocks.

Day 2

Saturday 2nd July

Widdybank Farm, Cetry Bank, Bowlees Quarry and Bowlees Beck to Gibson's Cave

Widdybank Farm was our first destination today, to explore a very special botanically rich hay meadow. Amongst the many plants seen were Scottish Asphodel (*Tofieldia pusilla*), Star Sedge (*Carex echinata*) and Alpine Bartsia (*Bartsia alpina*) representing the tiny treasures. Showier species included Early Marsh-orchid (*Dactylorhiza incarnata* subsp. *incarnata*) with its flesh-pink flowers, Fragrant Orchid (*Gymnadenia conopsea*) including one large white-flowered specimen and Marsh Lousewort (*Pedicularis palustris*) with its strange pink flowers and intricately divided foliage. We also saw a few yellow globes of the aptly named Globe Flower (*Trollius europaeus*).

As we crossed another meadow on our way to Cetry Bank, a Curlew was heard and then provided several good long sightings. Cetry Bank looks rather intimidating from the top, but once we were down on its terraces it proved easier and, anyway, we were so busy finding its amazing plants we were too busy to be nervous. Yellow Saxifrage (*Saxifraga aizoides*) was flowering in abundance and, only a few feet away, we examined the dainty trio of Lesser Clubmoss (*Selaginella selaginoides*), Hair Sedge (*Carex capillaris*) and Flea Sedge (*C. pulicaris*), and the rare False Sedge (*Kobresia simpliciuscula*). More Alpine Bartsia was seen here too, and Common Rockrose (*Helianthemum nummularium*) was in abundance.

It was rather cold and windy, despite occasional sunny spells, so we headed back to the shelter of the farm to have our picnic lunch, and were entertained by Swallows, Martins, and Pied Wagtails. Duly nourished, we drove back across Widdybank pasture to the road and continued toward Peghorn Farm to see the Masterwort (*Imperatoria ostruthium*). Stopping along the way, we found Flat Sedge (*Blysmus compressus*) in flower, showing not only its flattened inflorescence but also its yellow anthers. Also seen here were Marsh Arrowgrass (*Triglochin palustris*) and more of the dainty Hair and Flea Sedges.

On the roadside at Harwood Farm, we explored a bank of orchids finding Lesser Butterfly Orchids (*Platanthera bifolia*), Northern Marsh-orchids (*Dactylorhiza purpurella*), Common Spotted-orchids (*Dactylorhiza fuchsii*) and the hybrid between Northern Marsh and Heath Spotted-orchid (*D. maculata* subsp. *ericetorum*) which is known as *D. x formosa*. We also found a few Bird's-eye Primroses (*Primula farinosa*) still in flower.

At Bowlees, we warmed up with hot drinks and cake in the Visitor Centre before setting off to explore the quarry, noting along the way Hairy Brome (*Bromopsis ramosa*) with its soft hairy stems, and we looked at the difference in leaf shape between Field Maple (*Acer campestre*) and Sycamore (*Acer pseudoplatanus*). In the quarry area we found two St. John's-worts: Slender (*Hypericum pulchrum*) and Hairy (*H. hirsutum*), as well as Pale Lady's-mantle (*Alchemilla xanthochlora*) and a good patch of Wild Strawberry (*Fragaria vesca*) in fruit. We also saw what appeared to be a large hybrid swarm of Common-spotted and Northern Marsh Orchids; the simple hybrid is *Dactylorhiza x venusta*, but there were also further crosses and back-crosses of them. We walked up to Summer

Force and Gibson's Cave. At a small meadow area we found Greater Butterfly orchids (*Platanthera chlorantha*) and two Fragrant Orchids (*Gymnadenia borealis* and *G. conopsea*) side-by-side for comparison, which we did by both the flower shape and the scent. The area around the waterfall gave us Sanicle (*Sanicula europaea*) in flower and some specimens of Brittle Bladder-fern (*Cystopteris fragilis*).

Happy with our varied finds and locations today, and pleased to have escaped any heavy rain, we headed back to the hotel for another wonderful meal in congenial company.

Day 3

Sunday 3rd July

Cronkley Fell

Hanging Shaw car park was surprisingly full when we arrived, and it turned out to be a sponsored walk presided over by the famous botanist who lives in the area and compiled the list of Teesdale rarities known as the Teesdale Assemblage, nine of which we were to see today and 16 in this year's tour all together.

Once over the river, we headed up through the juniper woodland following the Pennine Way, finding Beech Fern (*Phegopteris connectilis*), Hard-fern (*Blechnum spicant*) and Scaly Male-fern (*Dryopteris affinis* subsp. *affinis*). We spent some time here watching a family of Swallows and a fledgling Robin before moving on. The long walk up Birk Rigg with the wind in our faces was rewarded by a nice sheltered spot to have our lunch with wonderful views back down the valley. From here we moved on into the first enclosure (these keep out the sheep and rabbits to allow the plants to flower).

Growing in the sugar limestone we found Spring Sandwort (*Minuartia verna*), Limestone Bedstraw (*Galium sternerii*) and the very rare Hoary Rock-rose (*Helianthemum oelandicum* subsp. *levigatum*); this latter only grows here, although up here it is abundant. In the next enclosure we found Hairy Lady's-mantle (*Alchemilla filicaulis* subsp. *vestita*) and several plants of Hoary Whitlowgrass (*Draba incana*); we also counted 15 specimens of Moonwort (*Botrychium lunaria*) all with fertile fronds, and looking very photogenic.

We explored the wet flushes looking for Alpine Meadow-rue (*Thalictrum alpinum*), we found lots of its distinctive leaves but sadly no flowers, although we also found some Variegated Horsetail (*Equisetum variegatum*).

This evening was our last chance to go out and see if we could find some Black Grouse at their traditional lek so we headed back down for an early dinner. Five of us set off before dusk and waited patiently, scanning the valley with our binoculars, but sadly it was not our lucky night, however we did add two Snipe, a Heron and some bats, (probably Pipistrelle) to our list.

Day 4

Monday 4th July

From High Force downstream on both sides of the River Tees

As we walked down towards Holwick Head Bridge, we noted the webbing on the Bird Cherry (*Prunus padus*) caused by the Bird Cherry Ermine Moth. At the bridge we saw a hybrid Willow which we decided was *Salix x laurina* the cross between Grey Willow (*Salix cinerea*) and Tea-leaved Willow (*Salix phylicifolia*). We also examined

the Horsetails here, admiring the delicate much-branched Wood Horsetail (*Equisetum sylvaticum*) and Shade Horsetail (*E. pratense*) with its three-angled branches.

Skylarks and a Blue Tit were seen and a Willow Warbler was heard. Once we had seen the Lesser Pond-sedge (*Carex acutiformis*), we headed back up stream and on past the bridge to a wonderful bank that was covered in Mountain Pansies (*Viola lutea*) in a huge array of different colour forms. As we walked up to see High Force waterfall from above, we came across some Violet leaves which, after discussion, we decided were Marsh Violet (*Viola palustris*). Back at the bridge, we saw several Dragonflies with what appeared to be black and white striped markings, but they were close up and never still, so we were unsure of which species.

The last location for the tour was to see High Force from below on the north side. A selection of the new plants added here were Honeysuckle (*Lonicera perichlymenum*), Wood Melick (*Melica uniflora*), Mountain Melick (*M. nutans*) and Giant Fescue (*Schedonorus gigantea*), and a Spotted Flycatcher was also seen.

All too soon we were back at the hotel exchanging our goodbyes and thanks before parting, and hoping to meet up again.

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Native Scots Pine (*Pinus sylvestris* ssp. *scotica*) at Low Force

Species Lists

Plants

Scientific Name	Common Name	Location
PTERIDOPHYTES		
FERNS & ALLIES		
Selaginellaceae	Lesser Clubmoss Family	
<i>Selaginella selaginoides</i>	Lesser Clubmoss	Cetry Bank & Cronkley Fell
Equisetaceae	Horsetail Family	
<i>Equisetum arvense</i>	Field Horsetail	Occasional
<i>Equisetum palustre</i>	Marsh Horsetail	Peghorn Corner
<i>Equisetum pratense</i>	Shady Horsetail	nr Holwick Head Bridge
<i>Equisetum sylvaticum</i>	Wood Horsetail	nr Holwick Head Bridge
<i>Equisetum variegatum</i>	Variiegated Horsetail	Peghorn Corner & Cronkley Fell
Aspleniaceae	Spleenwort Family	
<i>Asplenium trichomanes</i> ssp <i>quadrialeans</i>	Maidenhair Spleenwort	Cronkley Bridge and Holwick Head Bridge
<i>Asplenium scolopendrium</i>	Hart's-tongue Fern	Holwick Head Bridge
<i>Asplenium viride</i>	Green Spleenwort	
Blechnaceae	Hard-fern Family	
<i>Blechnum spicant</i>	Hard-fern	Pennine Way
Dennstaedtiaceae	Bracken Family	
<i>Pteridium aquilinum</i>	Bracken	Common
Dryopteridaceae	Buckler-fern Family	
<i>Dryopteris affinis</i> ssp <i>affinis</i>	Scaly Male-fern	Pennine Way
<i>Dryoptereis dilatata</i>	Broad Buckler-fern	Occasional
<i>Dryopteris filix-mas</i>	Male-fern	Frequent
<i>Polystichum setiferum</i>	Soft Shield-fern	Summer Force & nr High Force
Ophioglossaceae	Adder's-tongue Fern Family	
<i>Botrychium lunaria</i>	Moonwort	Cronkley Fell
Polypodiaceae	Polypody Family	
<i>Polypodium vulgare</i>	Common Polypody	Widdybank Farm & Holwick Head Bridge
Pteridaceae	Ribbon Fern Family	
<i>Cryptogramma crispera</i>	Parsley Fern	Cronkley Fell
Thelypteridaceae	Marsh Fern Family	
<i>Phegopteris connectilis</i>	Beech Fern	Pennine Way
Woodsiaceae	Lady-fern Family	
<i>Athyrium filix-femina</i>	Lady-fern	Occasional
<i>Cystopteris fragilis</i>	Brittle Bladder-fern	Summer Force & nr High Force
PINOPSIDA		
CONIFERS		
Cupressaceae	Juniper Family	
<i>Juniperus communis</i>	Common Juniper	Pennine Way, Cronkley Fell & nr High Force

Scientific Name	Common Name	Location
Pinaceae		
<i>Pinus sylvestris</i>	Scot's Pine	Occasional
<i>Pinus sylvestris</i> subsp. <i>scotica</i>	native Scot's Pine	Low Force
MAGNOLIOPSIDA FLOWERING PLANTS		
Magnoliidae		
Amaranthaceae Goosefoot Family		
<i>Chenopodium bonus-henricus</i>	Good King Henry	Bowlees, nr VC
Apiaceae Carrot Family		
<i>Aegopodium podagraria</i>	Ground Elder	Frequent
<i>Anthriscus sylvestris</i>	Cow Parsley	Occasional
<i>Conopodium majus</i>	Pignut	Frequent
<i>Heracleum sphondylium</i>	Hogweed	Occasional
<i>Imperatoria ostruthium</i>	Masterwort	Peghorn Lodge
<i>Myrrhis odorata</i>	Sweet Cicely	downstream from Wynch Bridge & driving
<i>Sanicula europaea</i>	Sanicle	Summer Force & nr High Force
Asteraceae Daisy Family		
<i>Achillea millefolium</i>	Yarrow	Occasional
<i>Antennaria dioica</i>	Mountain Everlasting	Low Force & Cronkley Fell
<i>Arctium minus</i>	Lesser Burdock	nr Holwick Head Bridge
<i>Bellis perennis</i>	Daisy	Frequent
<i>Cirsium heterophyllum</i>	Melancholy Thistle	Occasional
<i>Cirsium arvense</i>	Creeping Thistle	Occasional
<i>Cirsium palustre</i>	Marsh Thistle	Frequent
<i>Cirsium vulgare</i>	Spear Thistle	Occasional
<i>Crepis paludosa</i>	Marsh Hawk's-beard	Occasional
<i>Hieracium agg</i>	Hawkweed	Occasional
<i>Hypochaeris radicata</i>	Cat's-ear	Occasional
<i>Lapsana communis</i>	Nipplewort	Frequent
<i>Leontodon hispidus</i>	Rough Hawkbit	Frequent
<i>Leucanthemum vulgare</i>	Oxeye Daisy	Occasional
<i>Matricaria discoides</i>	Pineappleweed	Occasional
<i>Mycelis muralis</i>	Wall Lettuce	High Force
<i>Petasites hybridus</i>	Butterbur	Driving
<i>Pilosella officinarum</i>	Mouse-ear Hawkweed	Low Force & Cronkley Fell
<i>Senecio aquatilis</i>	Marsh Ragwort	Harwood
<i>Senecio jacobaea</i>	Ragwort	Occasional
<i>Serrulata tinctoria</i>	Saw-wort	Low Force
<i>Solidago virgaurea</i> ssp <i>minuta</i>	Dwarf Goldenrod	Low Force
<i>Sonchus asper</i>	Prickly Sow-thistle	Wat Garth
<i>Taraxacum agg</i>	Dandelion group	Occasional
<i>Tragopogon pratensis</i>	Goat's-beard	Wat Garth
<i>Tussilago farfara</i>	Coltsfoot	Occasional
Betulaceae Birch Family		
<i>Alnus glutinosa</i>	Alder	Occasional
<i>Betula pubescens</i>	Downy Birch	Occasional
<i>Betula pubescens</i> ssp <i>tortuosa</i>	Downy Birch, upland subsp.	Low force
<i>Corylus avellana</i>	Hazel	Occasional

Scientific Name	Common Name	Location
Boraginaceae		
<i>Myosotis arvensis</i>	Field Forget-me-not	Bowlees Quarry & High Force
<i>Myosotis laxa</i>	Tufted Forget-me-not	Widdybank Farm and Cronkley
<i>Myosotis sylvatica</i>	Wood Forget-me-not	Low Force
Brassicaceae		
<i>Alliaria petiolata</i>	Garlic Mustard	Frequent
<i>Arabidopsis thaliana</i>	Thale Cress	Bowlees
<i>Cardamine hirsuta</i>	Hairy Bitter-cress	Summer Force
<i>Cardamine pratensis</i>	Cuckooflower	Cronkley & Wat Garth
<i>Capsella bursa-pastoris</i>	Shepherd's Purse	Occasional
<i>Draba incana</i>	Hoary Whitlowgrass	Cronkley Fell
<i>Hesperis matronalis</i>	Dame's-violet	Bowlees
<i>Nasturtium officinale</i>	Watercress	Wat Garth
<i>Thlaspi (Noccaea) caerulescens</i>	Alpine Pennycress	
Campanulaceae		
<i>Campanula rotundifolia</i>	Harebell	nr High Force
Caprifoliaceae		
<i>Lonicera periclymenum</i>	Honeysuckle	High Force
<i>Sambucus nigra</i>	Elderberry	Occasional
Caryophyllaceae		
<i>Arenaria serpyllifolia</i>	Thyme-leaved Sandwort	High Force
<i>Cerastium fontanum</i>	Common Mouse-ear	Occasional
<i>Minuartia verna</i>	Spring Sandwort	Cronkley Fell
<i>Moehringia trinerva</i>	Three-nerved Sandwort	High Force
<i>Sagina procumbens</i>	Procumbent Pearlwort	Harwood
<i>Silene dioica</i>	Red Campion	Occasional
<i>Silene (Lychnis) flos-cuculi</i>	Ragged Robin	Harwood & downstream from Holwick Head Bridge
<i>Stellaria alsine</i>	Bog Stitchwort	Cronkley
<i>Stellaria graminea</i>	Lesser Stitchwort	Occasional
<i>Stellaria holostea</i>	Greater Stitchwort	Occasional
<i>Stellaria media</i>	Common Chickweed	Occasional
Cornaceae		
<i>Cornus sanguineus</i>	Dogwood family Dogwood	High Force
Crassulaceae		
<i>Sedum acer</i>	Biting stonecrop	Bowlees
<i>Sedum album</i>	White Stonecrop	Bowlees
<i>Sempervivum tectorum</i>	House-leek	Bowlees
Dipsacaceae		
<i>Succisa pratensis</i>	Teasel Family Devil's-bit Scabious	downstream from Wynch Bridge
Droseraceae		
<i>Drosera rotundifolia</i>	Sundew Family Round-leaved Sundew	Pennine Way & Cronkley Fell
Ericaceae		
<i>Calluna vulgaris</i>	Heather Family Heather	Frequent
<i>Erica tetralix</i>	Cross-leaved Heath	Cronkley Fell and Pennine Way

Scientific Name	Common Name	Location
<i>Vaccinium myrtillus</i>	Bilberry	Birk Rigg & Crobkely fell
Euphorbiceae	Spurge Family	
<i>Mercurialis perennis</i>	Dog's Mercury	Frequent
Fabaceae	Pea Family	
<i>Trifolium pratense</i>	Red Clover	Occasional
<i>Trifolium repens</i>	White Clover	Occasional
<i>Lathyrus pratensis</i>	Meadow Vetchling	Occasional
<i>Lotus corniculatus</i>	Bridsfoot-trefoil	Occasional
<i>Medicago lupulina</i>	Black Medick	Cronkley
<i>Vicia cracca</i>	Tufted Vetch	Occasional
<i>Vicia sepium</i>	Bush Vetch	Occasional
Fagaceae	Beech Family	
<i>Fagus sylvatica</i>	Beech	Frequent
Gentianaceae	Gentian Family	
<i>Gentiana verna</i>	Spring Gentian	Cronkley Fell
Geraniaceae	Crane's-bill Family	
<i>Geranium pratense</i>	Meadow Crane's-bill	downstream from Wynch Bridge & driving
<i>Geranium robertianum</i>	Herb Robert	Occasional
<i>Geranium sylvaticum</i>	Wood Crane's-bill	Occasional
Hypericaceae	St John's-wort Family	
<i>Hypericum hirsutum</i>	Hairy St John's-wort	Bowlees Quarry
<i>Hypericum pulchrum</i>	Slender St John's-wort	Bowlees Quarry & High Force
Lamiaceae	Dead-nettle Family	
<i>Ajuga reptans</i>	Common Bugle	Wynch Bridge & Bowlees Quarry
<i>Mimulus x robertsii</i>	Hybrid Monkeyflower	Driving & Wat Garth
<i>Prunella vulgaris</i>	Selfheal	Occasional
<i>Stachys sylvatica</i>	Hedge Woundwort	High Force
<i>Teucrium scorodonia</i>	Wood Sage	Occasional
<i>Thymus polytrichus</i>	Wild Thyme	Occasional
Linaceae	Flax Family	
<i>Linum catharticum</i>	Purging or Fairy Flax	Widdybank Farm & Cronkley
Lentibulariaceae	Butterwort Family	
<i>Pinguicula vulgaris</i>	Common Butterwort	Widdybank Farm, Pennine Way & Cronkley Fell
Malvaceae	Mallow Family	
<i>Malva sylvestris</i>	Common Mallow	
<i>Tilia platyphyllos</i>	Large-leaved Lime	High Force
Oleaceae	Olive Family	
<i>Fraxinus excelsior</i>	Ash	Frequent
Onagraceae	Willowherb Family	
<i>Chamerion angustifolium</i>	Rosebay Willowherb	Bowlees Quarry

Scientific Name	Common Name	Location
<i>Circaea lutetiana</i>	Enchanter's-nightshade	Occasional
<i>Epilobium brunnescens</i>	New Zealand Willowherb	Pennine Way
<i>Epilobium montanum</i>	Broad-leaved Willowherb	Occasional
Orobanchaceae	Broomrape Family	
<i>Bartsia alpina</i>	Alpine Bartsia	Widdybank Farm & Cetry Bank
<i>Euphrasia</i> sp.	Eyebright	Frequent
<i>Pedicularis palustris</i>	Marsh Lousewort	Widdybank Farm & Pennine Way
<i>Pedicularis sylvatica</i>	Lousewort	Widdybank Farm & Pennine Way
<i>Rhinanthus minor</i>	Yellow-rattle	Frequent
Oxalidaceae	Wood Sorrel Family	
<i>Oxalis acetosella</i>	Wood Sorrel	Occasional
Papaveraceae	Poppy Family	
<i>Mecanopsis cambrica</i>	Welsh Poppy	Occasional
Plantaginaceae	Plantain Family	
<i>Plantago lanecolata</i>	Ribwort Plantain	Occasional
<i>Plantago major</i>	Greater Plantain	Occasional
<i>Plantago maritima</i>	Sea Plantain	Low Force & Cronkley Fell
<i>Plantago media</i>	Hoary Plantain	
Polygalaceae	Milkwort Family	
<i>Polygala serpyllifolia</i>	Heath Milkwort	Cronkley Fell
<i>Polygala vulgaris</i>	Common Milkwort	Low Force
Polygonaceae	Knotweed Family	
<i>Persicaria vivipara</i>	Alpine Bistort	Low Force & Cronkley Fell
<i>Rumex acetosa</i>	Sorrel	Occasional
<i>Rumex longifolius</i>	Northern Dock	Frequent
<i>Rumex obtusifolius</i>	Braoad-leaved Dock	Occasional
Potamogetonaceae	Pondweed Family	
<i>Potamogeton polygonifolius</i>	Bog Pondweed	Pennine Way & Cronkley Fell
Primulaceae	Primrose Family	
<i>Primula farinosa</i>	Bird's-eye Primrose	Occasional
<i>Primula veris</i>	Cowslip	Occasional
<i>Primula vulgaris</i>	Primrose	Summer Force
<i>Lysimachia nemorum</i>	Yellow Pimpernel	High Force
Ranunculaceae	Buttercup Family	
<i>Anemone nemorosa</i>	Wood Anemone	Cronkley Fell
<i>Caltha palustris</i>	Marsh Marigold	Occasional
<i>Ranunculus acris</i>	Meadow Buttercup	Frequent
<i>Ranunculus flammula</i>	Lesser Spearwort	Occasional
<i>Ranunculus repens</i>	Creeping Buttercup	Occasional
<i>Thalictrum alpinum</i>	Alpine Meadow-rue	Crobkely Fell
<i>Trollius europaeus</i>	Globeflower	Widdybank Farm & Driving
Rosaceae	Rose Family	
<i>Alchemilla filicaulis</i> ssp <i>vestita</i>	Hairy Lady's-mantle	Cronkley Fell

Scientific Name	Common Name	Location
<i>Alchemilla glabra</i>	Smooth Lady's-mantle	Frequent
<i>Alchemilla mollis</i>	Garden Lady's-mantle	Low Force
<i>Alchemilla xanthochlora</i>	Pale Lady's-mantle	Bowlees Quarry
<i>Crataegus monogyna</i>	Hawthorn	Occasional
<i>Filipendula ulmaria</i>	Meadow Sweet	Occasional
<i>Fragaria vesca</i>	Wild Strawberry	Bowlees Quarry
<i>Geum rivale</i>	Water Avens	Frequent
<i>Geum urbanum</i>	Wood Avens	Frequent
<i>Geum x intermedium</i>	Water Avens x Wood Avens	Bowlees
<i>Helianthemum nummularium</i>	Common Rock-rose	Cetry Bank & Cronkley Fell
<i>Helianthemum oelandicum</i> ssp <i>laevigatum</i>	Hoary Rock-rose	Cronkley Fell
<i>Potentilla anserina</i>	Silverweed	Occasional
<i>Potentilla erecta</i>	Tormentil	Frequent
<i>Potentilla fruticosa</i>	Shrubby Cinquefoil	Low Force
<i>Prunus padus</i>	Bird Cherry	Occasional
<i>Rosa caesia</i> ssp <i>vosagiaca</i>	Glaucous Dog-rose	Occasional
<i>Rubus fruticosus</i>	Bramble	Frequent
<i>Rubus ideaus</i>	Raspberry	Bowlees
<i>Sanguisorba officinalis</i>	Great Burnet	Occasional
<i>Sorbus aria</i>	Whitebeam	High Force
<i>Sorbus aucuparia</i>	Rowan	Frequent
<i>Sorbus rupicola</i>	Rock Whitebeam	Low Force
Rubiaceae	Bedstraw Family	
<i>Cruciata laevipes</i>	Crosswort	Frequent
<i>Galium aparine</i>	Cleavers	Bowlees
<i>Galium boreale</i>	Northern Bedstraw	Low Force, Cronkley Bridge & Holwick Head Bridge
<i>Galium saxatile</i>	Heath Bedstraw	Low Force & Birk Rigg
<i>Galium sternerii</i>	Limestone Bedstraw	Cronkley Fell
<i>Galium verum</i>	Lady's Bedstraw	Frequent
Sapindaceae	Maple Family	
<i>Acer campestre</i>	Field Maple	Bowlees
<i>Acer pseudoplatanus</i>	Sycamore	Frequent
Saxifragaceae	Saxifrage Family	
<i>Chrysosplenium oppositifolium</i>	Opposite-leaved Golden-saxifrage	Summer Force
<i>Saxifraga aizoides</i>	Yellow Saxifrage	Widdybank Farm & Cetry Bank
Saliciaceae	Willow Family	
<i>Populus tremula</i>	Aspen	Low Force & High Force
<i>Salix caprea</i>	Goat Willow	Occasional
<i>Salix caprea</i> ssp <i>sphacelata</i>	a Goat willow	Cronkley Bridge
<i>Salix cinerea</i>	Grey Willow	Occasional
<i>Salix phylicifolia</i>	Tea-leaved Willow	Low Force
<i>Salix x laurina</i> (<i>S cinerea</i> x <i>phylicifolia</i>)	a Hybrid Willow	Holwick Head Bridge
<i>Salix x ludificans</i> (<i>S phylicifolia</i> x <i>aurita</i>)	a Hybrid Willow	
Ulmaceae	Elm Family	
<i>Ulmus glabra</i>	Wych Elm	Occasional

Scientific Name	Common Name	Location
Urticaceae	Nettle Family	
<i>Urtica dioica</i>	Common Nettle	Occasional
Valerianaceae	Valerian Family	
<i>Valeriana dioica</i>	Marsh Valerian	Widdybank Farm
<i>Valeriana officinalis</i>	Valerian	High Force
Veronicaceae	Speedwell Family	
<i>Digitalis purpurea</i>	Foxglove	Occasional
<i>Veronica beccabunga</i>	Brooklime	Wat Garth
<i>Veronica chamaedrys</i>	Germander Speedwell	Frequent
<i>Veronica officinalis</i>	Heath Speedwell	Cronkley Fell & High Force
Violaceae	Violet Family	
<i>Viola lutea</i>	Mountain Pansy	Occasional
<i>Viola palustris</i>	Marsh Violet	High Force
<i>Viola riviniana</i>	Common Dog-violet	Cronkley Fell
<i>Viola reichenbachiana</i>	Early Dog-violet	High Force
Cyperaceae	Sedge Family	
<i>Blysmus compressus</i>	Flat sedge	Peghorn Corner and Bowlees Quarry
<i>Carex acutiformis</i>	Lesser Pond Sedge	downstream from Holwick Head Bridge
<i>Carex capillaris</i>	Hair Sedge	Cetry Bank & Cronkley Fell
<i>Carex careophyllea</i>	Spring Sedge	Cronkley Fell
<i>Carex demissa</i>	Common Yellow-sedge	Occasional
<i>Cares dioica</i>	Dioecious Sedge	Peghorn Corner
<i>Carex echinata</i>	Star Sedge	Widdybank Farm, Cetry Bank & Cronkley Fell
<i>Carex flacca</i>	Glaucous Sedge	Cetry Bank
<i>Carex hirta</i>	Hairy Sedge	Cetry Bank
<i>Carex leporina</i>	Oval Sedge	Cronkley Fell
<i>Carex panicea</i>	Carnation Sedge	Cetry Bank & Cronkley Fell
<i>Carex pulicaris</i>	Flea Sedge	Cetry Bank, Peghorn Corner & Cronkley Fell
<i>Carex remota</i>	Remote Sedge	High Force
<i>Carex sylvatica</i>	Wood Sedge	High Force
<i>Eriophorum angustifolium</i>	Common Cottongrass	Widdybank Farm
<i>Eriophorum latifolium</i>	Broad-leaved Cottongrass	Widdybank Farm
<i>Kobresia simpliciuscula</i>	False Sedge	Cetry Bank
<i>Trichophorum germanicum</i>	Deer Grass	Widdybank Farm
Juncaceae	Rush Family	
<i>Juncus conglomeratus</i>	Compact Rush	Widdybank Farm
<i>Juncus effusus</i>	Soft Rush	Frequent
<i>Luzula sylvatica</i>	Greater Wood-rush	Bowlees & High Force
Juncaginaceae	Arrowgrass Family	
<i>Triglochin palustris</i>	Marsh Arrowgrass	Peghorn Corner
Liliaceae	Lily Family	
<i>Allium ursinum</i>	Wild Garlic	Low Force
<i>Hyacinthoides non-scripta</i>	Bluebell	Low Force
<i>Iris pseudacoris</i>	Yellow Flag	Driving
<i>Narthecium ossifragum</i>	Bog Asphodel	Widdybank Farm, Pennine Way & High Force

Scientific Name	Common Name	Location
<i>Tofieldia pusilla</i>	Scottish Asphodel	Widdybank Farm & Cronkley Fell
Orchidaceae		
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	Frequent
<i>Dactylorhiza incarnata</i> ssp <i>incarnata</i>	Early Marsh-orchid	Widdybank Farm
<i>Dactylorhiza maculata</i> ssp <i>ericetorum</i>	Heath Spotted-orchid	Occasional
<i>Dactylorhiza purpurella</i>	Northern Marsh-orchid	Frequent
<i>Dactylorhiza x venusta</i>	Hybrid Orchid <i>D fuchsii</i> x <i>purpurella</i>	Frequent
<i>Dactylorhiza x formosa</i>	Hybrid Orchid <i>D maculata</i> x <i>purpurella</i>	Harwood
<i>Gymnadenia borealis</i>	Heath Fragrant Orchid	Low Force, Widdybank Farm, Bowlees Meadow
<i>Gymnadenia conopsea</i>	Fragrant Orchid	Bowlees Meadow
<i>Neottia (Listera) ovata</i>	Common Twayblade	Occasional
<i>Platanthera bifolia</i>	Lesser Butterfly-orchid	Harwood
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	Bowlees Meadow
Poaceae		
<i>Alopecurus pratensis</i>	Meadow Foxtail	Occasional
<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	Frequent
<i>Arrhenatherum elatius</i>	False Oat-grass	Frequent
<i>Agrostis stolonifera</i>	Creeping Bent	Bowlees
<i>Brachypodium sylvaticum</i>	False Brome	High Force
<i>Briza media</i>	Quaking Grass	Frequent
<i>Bromopsis ramosa</i>	Hairy-brome	Bowlees
<i>Cynosorus cristatus</i>	Crested Dog's-tail	Frequent
<i>Dactylis glomerata</i>	Cock's-foot	Frequent
<i>Deschampsia cespitosa</i>	Tufted Hair-grass	Pennine Way & High Force
<i>Deschampsia flexuosa</i>	Wavy Hair-grass	Pennine Way & High Force
<i>Festuca rubra</i>	Red Fescue	Hanging Shaw Carpark & Cronkley Fell
<i>Festuca vivipara</i>	Viviparous Fescue	Low Force
<i>Glyceria fluitans</i>	Floating Sweet-grass	Wat Garth
<i>Holcus lanata</i>	Yorkshire Fog	Frequent
<i>Koeleria macrantha</i>	Crested Hair-grass	Cronkley Fell
<i>Lolium perenne</i>	Perennial Rye-grass	Cronkley
<i>Melica nutans</i>	Mountain Melick	High Force
<i>Melica uniflora</i>	Wood Melick	High Force
<i>Molinia caerulea</i>	Purple Moor-grass	Cetry Bank
<i>Nardus stricta</i>	Mat-grass	Widdybank pasture
<i>Schedonorus (Festuca) gigantea</i>	Giant Fescue	High Force
<i>Sesleria caerulea</i>	Blue Moor-grass	Cetry Bank & Cronkley Fell
Moss		
<i>Plagionum</i> sp.	Plagionum Moss	Summer Force
<i>Thudium tamariscinum</i>	Tamarisk Moss	Summer Force

Birds (✓=recorded but not counted; H = heard only)

	Common name	Scientific name	July			
			1	2	3	4
1	Red Grouse	<i>Lagopus lagopus</i>			✓	
2	Mallard	<i>Anas platyrhynchos</i>	✓			✓
3	Grey Heron	<i>Ardea cinerea</i>			1	
4	Eurasian Oystercatcher	<i>Haematopus ostralegus</i>		✓	✓	

	Common name	Scientific name	July			
			1	2	3	4
5	Northern Lapwing	<i>Vanellus vanellus</i>		✓	✓	
6	European Golden Plover	<i>Pluvialis apricaria</i>			H	
7	Common Snipe	<i>Gallinago gallinago</i>			2	
8	Eurasian Curlew	<i>Numenius arquata</i>		✓	✓	
9	Common Redshank	<i>Tringa totanus</i>		✓		
10	Common Sandpiper	<i>Actitis hypoleucos</i>	✓			
11	Black-headed Gull	<i>Chroicocephalus ridibundus</i>		✓	✓	
12	Common Wood Pigeon	<i>Columba palumbus</i>	✓	✓		✓
13	Common Swift	<i>Apus apus</i>	✓		✓	
14	Western Jackdaw	<i>Coloeus monedula</i>			✓	
15	Great Tit	<i>Parus major</i>		✓		
16	Eurasian Blue Tit	<i>Cyanistes caeruleus</i>				✓
17	Eurasian Skylark	<i>Alauda arvensis</i>		✓	✓	✓
18	Barn Swallow	<i>Hirundo rustica</i>		✓	✓	
19	Common House Martin	<i>Delichon urbicum</i>		✓	✓	
20	Long-tailed Tit	<i>Aegithalos caudatus</i>	✓			
21	Willow Warbler	<i>Phylloscopus trochilus</i>				H
22	Eurasian Wren	<i>Troglodytes troglodytes</i>	H		H	H
23	Common Blackbird	<i>Turdus merula</i>	✓		✓	✓
24	European Robin	<i>Erithacus rubecula</i>		✓	✓	✓
25	Northern Wheatear	<i>Oenanthe oenanthe</i>			✓	
26	Spotted Flycatcher	<i>Muscicapa striata</i>	✓			✓
27	White-throated Dipper	<i>Cinclus cinclus</i>		✓		
28	Grey Wagtail	<i>Motacilla cinerea</i>		✓	✓	✓
29	Pied Wagtail	<i>Motacilla alba yarrellii</i>	✓			✓
30	Common Chaffinch	<i>Fringilla coelebs</i>			✓	
31	European Goldfinch	<i>Carduelis carduelis</i>		✓		

Mammals:

1	Rabbit	<i>Oryctolagus cuniculus</i>	✓	✓	✓	
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Butterflies:

1	Small Heath	<i>Coenonympha pamphilus</i>			✓	
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Moths

1	Bird Cherry Ermine Moth	<i>Yponomeuta evonymella</i>				evidence
2	Chimney Sweeper Moth	<i>Odezia atrata</i>	✓	✓		
3	Emperor Moth caterpillar	<i>Saturnia pavonia</i>		✓		

Other Invertebrates:

1	Black Slug	<i>Arion ater</i>		✓	✓	
2	Golden-ringed Dragonfly	<i>Cordulegaster boltonii</i>				✓