

# The Wild Flowers of Upper Teesdale

Naturetrek Tour Report

30 June - 3 July 2017

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Spring Sandwort (*Minuartia verna*)



Alpine Bartsia (*Bartsia aplina*)



Chalk Fragrant Orchid (*Gymnadenia conopsea*)



Naturetrek group on Birk Rigg

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Tour participants: Dawn Nelson (leader) with seven Naturetrek clients

## Summary

Our tour to see the botanical highlights of Upper Teesdale this year was blessed with good weather, and despite the hot dry spring which had an effect on many of the plants, we still had some excellent finds. The seven clients got on together extremely well and we shared our enthusiasm and expertise. A highlight was Moonwort (*Botrychium lunaria*) on Cronkley Fell. There was a stunning array of hybrid orchids including ones between Common Spotted-orchid and both Northern Marsh-orchid (*Dactylorhiza x venusta*), which is common here and with Heath Spotted-orchid (*Dactylorhiza x transiens*). We also found many of the iconic species from here such as Spring Sandwort (*Minuartia verna*) and Scottish Asphodel (*Tolfieldia pusilla*). But most of all we enjoyed each other's company in stunning scenery, surrounded by a wonderful array of interesting species. And not to forget great meals too!

## Day 1

Friday 30th June

We met up in the hotel bar and set off on our first excursion. Driving the short distance to Bowlees, we passed verges awash with Meadow Crane's-bill and spotted a Common Buzzard. From the car park we made our way to Wynch Bridge via a sheep pasture and a hay meadow. The first few plants were garden escapes, Biting and White Stonecrops (*Sedum acre*, *S. album*) and Houseleek (*Sempervivum tectorum*). Heading downstream on the Yorkshire side of the River Tees we saw Aspen (*Populus tremula*), Wood Sorrel (*Oxalis acetosella*) and beyond the woodland Alison was the first to spot the Alpine Bistort (*Persicaria vivipara*). Melancholy Thistle (*Cirsium heterophyllum*) was admired and we saw lots of Rabbits. We stopped to admire the Rock Whitebeam (*Sorbus rupicola*) on the cliff above us and then ventured out onto the riverside rocks, finding Dwarf Goldenrod (*Solidago vigeurea subsp. minuta*) in flower, and lots of seed heads of Bird's-eye Primrose (*Primula farinosa*), easily recognisable by the white felted underside of its leaves. Turning back upstream, we looked carefully at Wood Crane's-bill (*Geranium sylvaticum*) and Betony (*Betonica officinalis*) which was putting on a fantastic show.

Above Low Force, to the backdrop of the roaring water, we found Shrubby Cinquefoil (*Potentilla fruticosa*). Two intriguing plants, Sea Plantain (*Plantago maritima*) and Viviparous Sheep's-fescue (*Festuca vivipara*) were also found.

Back across the bridge we viewed Low Force from the Durham side where we admired the native Scots Pine (*Pinus sylvestris subsp. scotica*) with its distinctive outline and shorter needles and cones. We found a wonderful ledge full of flowers including Mountain Everlasting (*Antennaria dioica*), Fairy Flax (*Linum catharticum*) and Lesser Spearwort (*Ranunculus flammula*). On the way back up from the river we encountered a fledgling Robin at very close quarters. Passing through the pasture, a Mallard and four ducklings crossed our path.

We returned to our hotel to meet up later again for our first delicious meal and to go over our various finds.

## Day 2

Saturday 1st July

Today our destination was Cronkley Fell. We were lucky to have good weather as well as a good range of plants. Before we had even left the car park, Richard alerted us to a huge and very handsome specimen of *Dactylorhiza x venusta*, which is the hybrid between Common Spotted-orchid (*Dactylorhiza fuchsii*) and Northern Marsh-orchid

(*Dactylorhiza purpurella*) which is quite frequent here; but this one was exceptional. It was duly admired and photographed. A little further on we saw a Ringlet butterfly, Sneezewort (*Achillea ptarmica*) and Goat's-beard (*Tragopogon pratense*). In the stream at Wat Garth we noted Watercress (*Nasturtium officinale*), Red Admirals and hybrid Monkeyflower (*Mimulus x robertsii*). The flower-rich hay meadows waved in the wind and we had plenty of time to admire them whilst we watched a whole family sharing the task of moving a flock of sheep into the farmyard at Cronkley Farm. Heading up through the Juniper (*Juniperus communis*) wood our path was lined with ferns including Parsley Fern (*Cryptogramma crispera*), Hard Fern (*Blechnum spicant*) and Beech Fern (*Phegopteris connectilis*) as well as beautiful spires of Foxgloves (*Digitalis purpurea*). Pam alerted us to a Small Heath butterfly. At a damp hollow we found Common Butterwort (*Pinguicula vulgaris*) and Round-leaved Sundew (*Drosera rotundifolia*). As we ascended Birk Rigg we stopped to admire a family of Red Grouse and a Curlew.

In the first of the enclosures both Common Rockrose (*Helianthemum nummularium*) and the dainty endemic Hoary Rock-rose (*Helianthemum oelandicum* subsp. *levigatum*) were seen, as well as the first of many Spring Sandwort (*Minuartia verna*) and Lesser Clubmoss (*Selaginella selaginoides*). Several plants of Hoary Whitlowgrass (*Draba incana*), some displaying their distinctive twisted fruits, lined the side of the second enclosure.

At White Well enclosure we had our lunch beside Dark-red Helleborine (*Epipactis atrorubens*) and Twayblades (*Listera ovata*). Three magnificent specimens of Moonwort (*Botrychium lunaria*) with bright yellow fertile fronds were found by Norman, and swathes of Mountain Avens (*Dryas octopetala*) by David. Heading back we explored the wet flushes, finding Alpine Meadow-rue (*Thalictrum alpinum*) but sadly none of its delicate flowers, however this was compensated by a good stand of the dainty Variegated Horsetail (*Equisetum variegatum*).

We set off back down and had time to explore the flower bedecked grassland along the Durham side of the river at Cronkley Bridge. It was awash with more Alpine Bistort (*Persicaria vivipara*) and a variety of orchids. New to our list were a pair of Common Blue butterflies, Heath Spotted-orchid (*D. maculata*) with distinctive broad frilly lip, and the hybrid (*Dactylorhiza x formosa*) of Heath Spotted-orchid and Northern Marsh-orchid, as well as Pyrenean Scurvy-grass (*Cochlearia pyrenaica* subsp. *alpina*).

## Day 3

## Sunday 2nd July

This morning Trefor, Alison, Richard, Sandra, Pam and Normal braved an early excursion. Leaving our Hotel at 5am, we drove to the local Black Grouse lekking site in the hope of seeing some. We were in luck, getting good views straight away of 11 male Black Grouse 'strutting their stuff', and later a close up of a grey hen. The drive was a delight with the sun rising brightly and the stunning scenery laid out around us.

Later, after a hearty breakfast, we all drove back along the scenic route to visit Widdybank Farm and Cetry Bank. Here we had permission to enter a botanically rich hay meadow where we found Alpine Bartsia (*Bartsia alpina*), the very pale pink Early Marsh-orchid (*Dactylorhiza incarnata* subsp. *incarnata*) and Marsh Hawk's-beard (*Crepis paludosa*), as well as lots of Grass-of-Parnassus (*Parnassia palustris*) leaves. A Curlew and a Frog were seen, as well as a Skylark performing its broken wing routine to draw us away, so we set off smartly to Cetry Bank, the famous botanical hotspot of the River Tees. Most of us climbed down onto the turfy ledges to get close to the plants. We added to our list Yellow Saxifrage (*Saxifrage aizoides*), False Sedge (*Kobresia simpliciuscula*) and at last some flowering specimens of Bird's-eye Primrose (*Primula farinosa*), as well as seeing lots of other good plants and enjoying the unique view of the river from this vantage point.

On our way to Herdship we stopped at a few places to see other interesting plants including Flat Sedge (*Blysmus compressus*) and Masterwort (*Imperatoria ostruthium*). The latter is a plant often found near homesteads as it was used in the past for a variety of ailments. This particular patch seemed to be spreading so widely that the local farmer has been treating it with weed-killer, along with the docks. We chatted to a couple of friendly residents so hopefully they will let whoever needs to know that it is quite an uncommon plant. We stopped to admire Globeflower (*Trollius europaeus*) and other goodies on the verge as well spotting Swift and Snipe. As we parked, we set up another pair of Snipe.

We had our picnic lunch on a flower-strewn bank with our backs to a sun-warmed wall. Then we set off again to explore, finding Lesser Butterfly-orchid (*Platanthera bifolia*), and possibly its hybrid with Greater Butterfly-orchid (*Platanthera chlorantha*), plus Marsh Ragwort (*Senecio aquatica*).

Our final destination today was Bowlees, where we explored the old quarry finding Stone Bramble (*Rubus saxatilis*), the very rare Northern Hawk's-beard (*Crepis mollis*) and Glaucous Dog Rose (*Rosa caesia* subsp. *vosagiaca*). With the season being late, as well as client interest, meant grasses were taking their rightful place in our attentions. Here we added Hairy or Wood Brome (*Bromopsis ramosa*) and two Meadow-grasses; Smooth (*Poa pratensis*) and Rough (*Poa trivialis*), and a dragonfly.

As we walked up towards Gibson's Cave we saw Greater Butterfly-orchid (*Platanthera chlorantha*) and Pale Lay's-mantle (*Alchemilla xanthochlora*), as well as Small Skipper and Chimney Sweeper. At Gibson's Cave and the waterfall we found Brittle Bladder-Fern (*Cystopteris fragilis*) and Hard Shield-Fern (*Polystichum aculeatum*).

On our return we visited the tea rooms where the bird feeders gave us several new birds including Siskin, Great Tit, Coal Tit and young Blue Tits. Our final sightings of the day in the carpark were Rosebay Willowherb and a Wren.

Richard and Sandra walked down to the river in the evening and recorded Pipistrelles and a Tawny Owl.

## Day 4

## Monday 3rd July

On our final morning rain threatened, but soon cleared to sunshine. We drove to High Force and set off down the tree and plant-lined path. New species here included Valerian (*Valeriana officinalis*), Wood Melick (*Melica uniflora*) and Wood Meadow-grass (*Poa nemoralis*) with its distinctive firmly upward saluting stem leaves. A Green Woodpecker was seen and the ferns were very accommodating. Growing together for easy comparison we found Lady Fern (*Athyrium filix-femina*), Male Fern (*Dryopteris filix-mas*) and Golden-scaled Male-fern (*Dryopteris affinis*). Small-leaved Lime (*Tilia cordata*) was also compared with Common Lime (*Tilia x europaea*). Down at the viewing point of this magnificent waterfall we added Sweet Woodruff (*Galium odoratum*) and Goldenrod (*Solidago virgaurea*).

Next we set off downstream through a riverside pasture, admiring the huge quantity of Shrubby Cinquefoil (*Potentilla fruticosa*) along the opposite bank. At Holwick Head Bridge we said our goodbyes to Richard and Sandra who had to set off, but not before taking a group photograph. Then the rest of us crossed over the bridge to be met with dainty Wood Horsetail (*Equisetum sylvaticum*) and distinctive Shady Horsetail (*Equisetum pratense*) with its three angled branches. We walked downstream seeing a salmon fisherman, Grey Wagtail,



Mallard and Lapwing. After studying the Lesser Pond Sedge (*Carex acutiformis*) we headed back upstream where we found a bank strewn with Mountain Pansy (*Viola lutea*) in endless combinations of colours.

Our final destination was to see High Force from above, on the south side of the river. The best observations en route were a good-sized clump of Lemon-scented Fern (*Oreopteris limbosperma*), a nice patch of Bog Asphodel (*Narthecium ossifragum*) in flower and a glimpse of a Stoat as it dashed across our path.

We parted company back at the hotel, all agreeing we had enjoyed the tour, the company and all our finds.

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Naturetrek group at High Force

## Species Lists

Plants (This species list follows the nomenclature in New Flora of the British Isles 3rd Edition by Clive Stace)

<b>Scientific Name</b>	<b>Common Name</b>	<b>Location</b>
<b>PTERIDOPHYTES</b>		
<b>Lycophytes</b>		
<b>Selaginellaceae</b>		
<i>Selaginella selaginoides</i>	Lesser Clubmoss Family Lesser Clubmoss	Cronkley Fell & Cetry Bank
<b>Eusporangiate Ferns</b>		
<b>Ophioglossaceae</b>		
<i>Botrychium lunaria</i>	Adder's-tongue Fern Family Moonwort	White Well enclosure
<b>Calamophytes</b>		
<b>Equisetaceae</b>		
<i>Equisetum arvense</i>	Horsetail Family Field Horsetail	Wat Garth & Widdybank Farm
<i>Equisetum palustre</i>	Marsh Horsetail	Downstream of Wynch Bridge
<i>Equisetum pratense</i>	Shady Horsetail	Holwick Head Bridge
<i>Equisetum sylvaticum</i>	Wood Horsetail	Holwick Head Bridge
<i>Equisetum variegatum</i>	Variiegated Horsetail	Cronkley Fell & Cetry Bank
<b>Leptosporangiate Ferns</b>		
<b>Aspleniaceae</b>		
<i>Asplenium scolopendrium</i>	Spleenwort Family Hart's-tongue	Bowlees & Holwick Head Bridge
<i>Asplenium trichomanes</i> ssp <i>quadrialeans</i>	Maidenhair Spleenwort	Cronkley Bridge & Holwick Head Bridge
<b>Blechnaceae</b>		
<i>Blechnum spicant</i>	Hard-fern Family Hard-fern	Pennine Way and Cronkley Fell
<b>Dennstaeditiaceae</b>		
<i>Pteridium aquilinum</i>	Bracken Family Bracken	Frequent
<b>Dryopteridaceae</b>		
<i>Dryopteris affinis</i>	Buckler-fern Family Scaly Male-fern	High Force
<i>Dryoptereis dilatata</i>	Broad Buckler-fern	Nr Wynch Brdige & High Force
<i>Dryopteris filix-mas</i>	Male-fern	High Force
<i>Polystichum aculeatum</i>	Hard Shield-fern	Gibson's Cave
<b>Polypodiaceae</b>		
<i>Polypodium vulgare</i>	Polypody Family Common Polypody	Wynch Bridge & Holwick Head Bridge
<b>Pteridaceae</b>		
<i>Cryptogramma crispa</i>	Ribbon Fern Family Parsley Fern	Pennine Way and Cronkley Fell
<b>Thelypteridaceae</b>		
<i>Oreopteris limbosperma</i>	Marsh Fern Family Lemon-scented Fern	Nr High Force
<i>Phegopteris connectilis</i>	Beech Fern	Pennine Way

<b>Scientific Name</b>	<b>Common Name</b>	<b>Location</b>
<b>Woodsiaceae</b>	<b>Lady-fern Family</b>	
<i>Anhyrium felix-femina</i>	Lady-fern	Bowlee Quarry & High Force
<i>Cystopteris fragilis</i>	Brittle Bladder-fern	Gibson's Cave, High Force & Holwick Head Bridge
<b>PINACEAE</b>		
	<b>CONIFERS</b>	
<b>Cupressaceae</b>	<b>Juniper Family</b>	
<i>Juniperus communis</i>	Common Juniper	Pennine Way and High Force
<b>Pinaceae</b>	<b>Pine Family</b>	
<i>Pinus sylvestris</i>	Scot's Pine	Low Force
<i>Pinus sylvestris</i> ssp. <i>scotica</i>	native Scot's Pine	Low Force
<b>Taxaceae</b>	<b>Yew Family</b>	
<i>Taxus baccata</i>	Yew	High Force
<b>ANGIOSPERMS</b>		
	<b>FLOWERING PLANTS</b>	
<b>Eu-dicots</b>		
	<b>True Dicotyledons</b>	
<b>Amaranthaceae</b>	<b>Goosefoot Family</b>	
<i>Chenopodium bonus-henricus</i>	Good King Henry	Bowlees
<b>Apiaceae</b>	<b>Carrot Family</b>	
<i>Aegopodium podagraria</i>	Ground Elder	Peghorn Lodge
<i>Anthriscus sylvestris</i>	Cow Parsley	Frequent
<i>Conopodium majus</i>	Pignut	Frequent
<i>Heracleum sphondylium</i>	Hogweed	Frequent
<i>Imperatoria ostruthium</i>	Masterwort	Peghorn Lodge
<i>Myrrhis odorata</i>	Sweet Cicely	Winch Bridge
<i>Sanicula europaea</i>	Sanicle	Gibson's Cave & High Force
<b>Araliaceae</b>	<b>Ivy Family</b>	
<i>Hedera helix</i>	Ivy	Occasional
<b>Asteraceae</b>	<b>Daisy Family</b>	
<i>Achillea millefolium</i>	Yarrow	Frequent
<i>Achillea ptarmica</i>	Sneezewort	Wat Garth & Herdship
<i>Antennaria dioica</i>	Mountain Everlasting	Low Force
<i>Arctium minus</i>	Lesser Burdock	Peghorn Lodge & High Force
<i>Bellis perennis</i>	Daisy	Common
<i>Carduus crispus</i>	Wetted Thistle	Occasional
<i>Centaurea nigra</i>	Common Knapweed	Frequent
<i>Cirsium heterophyllum</i>	Melancholy Thistle	Common
<i>Cirsium arvense</i>	Creeping Thistle	Common
<i>Cirsium palustre</i>	Marsh Thistle	Bowlees Quarry
<i>Cirsium vulgare</i>	Spear Thistle	Occasional
<i>Crepis mollis</i>	Northern Hawk's-beard	Bowlees Quarry
<i>Crepis paludosa</i>	Marsh Hawk's-beard	Occasional
<i>Hieracium agg</i>	Hawkweed	Bowlees Quarry & Gibson's Cave
<i>Hypochaeris radicata</i>	Cat's-ear	Frequent
<i>Lapsana communis</i>	Nipplewort	Gibson's Cave

Scientific Name	Common Name	Location
<i>Leontodon hispidus</i>	Rough Hawkbit	Frequent
<i>Leucanthemum vulgare</i>	Oxeye Daisy	Hanging Shaw Carpark & Driving
<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	Occasional
<i>Scorzoneroides (Leontodon) autumnalis</i>	Autumn Hawkbit	Cronkley Fell
<i>Senecio aquatilis</i>	Marsh Ragwort	Herdship
<i>Senecio jacobaea</i>	Ragwort	Occasional
<i>Serrulata tinctoria</i>	Sawwort	Wynch Bridge
<i>Solidago virgaurea</i>	Goldenrod	High Force
<i>Solidago virgaurea ssp minuta</i>	Dwarf goldenrod	Down stream of Wynch Bridge & Low Force
<i>Sonchus asper</i>	Prickly Sow-thistle	High force
<i>Tanacetum parthenium</i>	Feverfew	Bowlees
<i>Taraxacum agg</i>	Dandelion group	Occasional
<i>Tragopogon pratensis</i>	Goat's-beard	Entrance to Wat Garth
<i>Tussilago farfara</i>	Coltsfoot	Wynch Bridge & Widdybank Farm
<b>Betulaceae</b>	<b>Birch Family</b>	
<i>Alnus glutinosa</i>	Alder	Wynch Bridge & High Force
<i>Betula pubescens</i>	Downy Birch	Wynch Bridge & High Force
<i>Betula pubescens ssp tortuosa</i>	Downy Birch, upland subsp.	Low Force
<i>Corylus avellana</i>	Hazel	Wynch Bridge & High Force
<b>Boraginaceae</b>	<b>Borage Family</b>	
<i>Myosotis arvensis</i>	Field Forget-me-not	Bowlees Quarry & High Force
<i>Myosotis laxa</i>	Tufted Forget-me-not	Cronkley Farm & Herdwick
<i>Myosotis secunda</i>	Creeping Forget-me-not	Cronkley Farm
<i>Myosotis sylvatica</i>	Wood Forget-me-not	Wynch Bridge
<b>Brassicaceae</b>	<b>Cabbage Family</b>	
<i>Alliaria petiolata</i>	Garlic Mustard	Bowlees
<i>Cardamine flexuosa</i>	Wavy Bitter-cress	Gibson's Cave
<i>Cardamine pratensis</i>	Cuckooflower	Occasional
<i>Capsella bursa-pastoris</i>	Shepherd's Purse	Bowlees & Cronkley Farm
<i>Cochlearia pyrenaica subsp. alpina</i>	Pyrenean Scurvygrass	Riverside nr Cronkley Bridge
<i>Draba incana</i>	Hoary Whitlowgrass	Exclosure 2, Cronkley Fell
<i>Hesperis matronalis</i>	Dame's-violet	Wynch Bridge
<i>Nasturtium officinale</i>	Watercress	Wat Garth
<b>Campanulaceae</b>	<b>Bellflower Family</b>	
<i>Campanula latifolia</i>	Giant Bellflower	Driving & High Force
<i>Campanula rotundifolia</i>	Harebell	Occasional
<b>Caprifoliaceae</b>	<b>Honeysuckle Family</b>	
<i>Lonicera periclymenum</i>	Honeysuckle	Driving & High Force
<i>Sambucus nigra</i>	Elderberry	Driving & High Force
<b>Caryophyllaceae</b>	<b>Pink Family</b>	
<i>Cerastium fontanum</i>	Common Mouse-ear	Occasional
<i>Minuartia verna</i>	Spring Sandwort	Cronkley Fell
<i>Sagina procumbens</i>	Procumbent Pearlwort	Occasional
<i>Silene dioica</i>	Red Campion	Occasional



<b>Scientific Name</b>	<b>Common Name</b>	<b>Location</b>
<i>Silene flos-cuculi</i>	Ragged Robin	Frequent
<i>Stellaria graminea</i>	Lesser Stichwort	Wynch Bridge & Holwick Head
<i>Stellaria media</i>	Common Chickweed	Common
<b>Cistaceae</b>	<b>Rockrose Family</b>	
<i>Helianthemum nummularium</i>	Common Rock-rose	Cronkley Fell & Cetry Bank
<i>Helianthemum oelandicum</i> subsp. <i>levigatum</i>	Hoary Rock-rose	Cronkley Fell
<b>Crassulaceae</b>	<b>Stonecrop Family</b>	
<i>Sedum acer</i>	Biting stonecrop	Bowlees & Middleton-in-Teesdale
<i>Sedum album</i>	White Stonecrop	Bowlees
<i>Senecio tectorum</i>	House-leek	Bowlees
<b>Dipsacaceae</b>	<b>Teasel Family</b>	
<i>Scabiosa columbaria</i>	Small Scabious	White Well enclosure & Cetry Bank
<i>Succisa pratensis</i>	Devil's-bit Scabious	Frequent
<b>Droseraceae</b>	<b>Sundew Family</b>	
<i>Drosera rotundifolia</i>	Round-leaved Sundew	Pennine Way & Cronkley Fell
<b>Ericaceae</b>	<b>Heather Family</b>	
<i>Calluna vulgaris</i>	Heather	Frequent
<i>Empetrum nigrum</i> subsp. <i>nigrum</i>	Crowberry	White Well enclosure
<i>Erica cinerea</i>	Bell Heather	Pennine Way & Birk Rigg
<i>Erica tetralix</i>	Cross-leaved Heath	Pennine Way, Birk Rigg & High force
<i>Vaccinium myrtillus</i>	Bilberry	Occasional
<b>Euphorbiaceae</b>	<b>Spurge Family</b>	
<i>Mercurialis perennis</i>	Dog's Mercury	Wynch Bridge & High Force
<b>Fabaceae</b>	<b>Pea Family</b>	
<i>Anthyllis vulneraria</i>	Kidney Vetch	White Well enclosure
<i>Trifolium dubium</i>	Lesser Trefoil	Bowlees
<i>Trifolium medium</i>	Zig-zag Clover	Cronkley Bridge
<i>Trifolium pratense</i>	Red Clover	Common
<i>Trifolium repens</i>	White Clover	Common
<i>Lathyrus pratensis</i>	Meadow Vetchling	Cronkley Farm & High Force
<i>Lotus corniculatus</i>	Brid's-foot-trefoil	Common
<i>Lotus pedunculatus</i>	Greater Brid-s-foot-trefoil	Hangingshaw Car Park & Widdybank Farm
<i>Vicia cracca</i>	Tufted Vetch	Frequent
<i>Vicia hirsuta</i>	Hairy Vetch	Downstream from Wynch Bridge
<i>Vicia sepium</i>	Bush Vetch	Frequent
<b>Fagaceae</b>	<b>Beech Family</b>	
<i>Fagus sylvatica</i>	Beech	Occasional
<b>Gentianaceae</b>	<b>Gentian Family</b>	
<i>Gentiana verna</i>	Spring Gentian	Cronkley Fell
<b>Geraniaceae</b>	<b>Crane's-bill Family</b>	
<i>Geranium pratense</i>	Meadow Crane's-bill	Driving and Wynch Bridge
<i>Geranium robertianum</i>	Herb Robert	Common

<b>Scientific Name</b>	<b>Common Name</b>	<b>Location</b>
<i>Geranium sylvaticum</i>	Wood Crane's-bill	Frequent
<b>Hypericaceae</b>	<b>St John's-wort Family</b>	
<i>Hypericum hirsutum</i>	Hairy St John's-wort	Bowlees Quarry & High force
<i>Hypericum pulchrum</i>	Slender St John's-wort	Occasional
<b>Lamiaceae</b>	<b>Dead-nettle Family</b>	
<i>Ajuga reptans</i>	Common Bugle	Common
<i>Betonica officinalis</i>	Betony	Nr Wynch Bridge downstream & upstream
<i>Lamium album</i>	White Dead-nettle	Cronkley Farm
<i>Prunella vulgaris</i>	Selfheal	Common
<i>Stachys sylvatica</i>	Hedge Woundwort	Occasional
<i>Teucrium scorodonia</i>	Wood Sage	Frequent
<i>Thymus polytrichus</i>	Wild Thyme	Frequent
<b>Linaceae</b>	<b>Flax Family</b>	
<i>Linum catharticum</i>	Purging or Fairy Flax	Frequent
<b>Lentibulariaceae</b>	<b>Butterwort Family</b>	
<i>Pinguicula vulgaris</i>	Common Butterwort	Occasional
<b>Malvaceae</b>	<b>Mallow Family</b>	
<i>Tilia cordata</i>	Small-leaved Lime	High Force
<i>Tilia x europaea</i>	Hybrid Lime =T. platyphyllos x T. cordata	High Force
<b>Oleaceae</b>	<b>Olive Family</b>	
<i>Fraxinus excelsior</i>	Ash	Occasional
<b>Onagraceae</b>	<b>Willowherb Family</b>	
<i>Chamerion angustifolium</i>	Rosebay Willowherb	Bowlees
<i>Circaea lutetiana</i>	Enchanter's-nightshade	Bowlees
<i>Epilobium brunnescens</i>	New Zealand Willowherb	Pennine Way
<i>Epilobium hirsutum</i>	Great Willowherb	High Force
<i>Epilobium montanum</i>	Broad-leaved Willowherb	Common
<b>Orobanchaceae</b>	<b>Broomrape Family</b>	
<i>Bartsia alpina</i>	Alpine Bartsia	Widdybank Farm & Cetry Bank
<i>Euphrasia sp.</i>	Eyebright	Frequent
<i>Euphrasia nemorosa</i>	Eyebright	Wynch Bridge
<i>Pedicularis palustris</i>	Marsh Lousewort	Widdybank Farm
<i>Pedicularis sylvatica</i>	Lousewort	Pennine Way
<i>Rhinanthus minor</i>	Yellow-rattle	Common
<b>Oxalidaceae</b>	<b>Wood Sorrel Family</b>	
<i>Oxalis acetosella</i>	Wood-sorrel	Occasional
<b>Papaveraceae</b>	<b>Poppy Family</b>	
<i>Mecanopsis cambrica</i>	Welsh Poppy	Bowlees
<b>Parnassiaceae</b>	<b>Grass-of-Parnassus Family</b>	
<i>Parnassia palustris</i>	Grass-of-Parnassus	Widdybank Farm & Cetry Bank

<b>Scientific Name</b>	<b>Common Name</b>	<b>Location</b>
<b>Phrymaceae</b> <i>Mimulus x robertsii</i>	<b>Monkeyflower Family</b> Hybrid Monkeyflower	Wat Garth
<b>Plantaginaceae</b> <i>Plantago lanecolata</i> <i>Plantago major</i> <i>Plantago maritima</i>	<b>Plantain Family</b> Ribwort Plantain Greater Plantain Sea Plantain	Common Common Occasional
<b>Polygalaceae</b> <i>Polygalla vulgaris</i>	<b>Milkwort Family</b> Common Milkwort	Occasional
<b>Polygonaceae</b> <i>Persicaria vivipara</i> <i>Polygonum aviculare</i> <i>Rumex acetosa</i> <i>Rumex longifolius</i> <i>Rumex obtusifolius</i>	<b>Knotweed Family</b> Alpine Bistort Knotgrass Sorrel Northern Dock Broad-leaved Dock	Wynch Bridge & Widdybank Farm Bowlees Frequent Occasional Frequent
<b>Potamogetonaceae</b> <i>Potamogeton polygonifolius</i>	<b>Pondweed Family</b> Bog Pondweed	Pennine Way & Cronkley Fell
<b>Primulaceae</b> <i>Primula farinosa</i> <i>Primula vulgaris</i> <i>Lysimachia nemorum</i>	<b>Primrose Family</b> Bird's-eye Primrose Primrose Yellow Pimpernel	Frequent in fruit, Cetry Bank in flower Leaves nr Gibson's Cave Gibson's Cave & High Force
<b>Ranunculaceae</b> <i>Aquilegia vulgaris</i> <i>Anemone nemorosa</i> <i>Caltha palustris</i> <i>Ranunculus acris</i> <i>Ranunculus flammula</i> <i>Ranunculus repens</i> <i>Thalictrum alpinum</i> <i>Trollius europaeus</i>	<b>Buttercup Family</b> Columbine Wood Anemone Marsh Marigold Meadow Buttercup Lesser Spearwort Creeping Buttercup Alpine Meadow-rue Globeflower	Bowlees Occasional Occasional Frequent Frequent Frequent Cronkley Fell Verge near Unthank
<b>Rosaceae</b> <i>Alchemilla filicaulis ssp vestita</i> <i>Alchemilla glabra</i> <i>Alchemilla xanthochlora</i> <i>Crataegus monogyna</i> <i>Dryas octopetala</i> <i>Filipendula ulmaria</i> <i>Fragaria vesca</i> <i>Geum rivale</i> <i>Geum urbanum</i> <i>Potentilla anserina</i> <i>Potentilla erecta</i> <i>Potentilla fruticosa</i> <i>Prunus padus</i> <i>Rosa caesia ssp vosagiaca</i> <i>Rubus fruticosus</i> <i>Rubus ideaus</i>	<b>Rose Family</b> Hairy Lady's-mantle Smooth Lady's-mantle Pale Lady's-mantle Hawthorn Mountain Avens Meadow Sweet Wild Strawberry Water Avens Wood Avens Silverweed Tormentil Shrubby Cinquefoil Bird Cherry Glaucous Dog-rose Bramble Raspberry	Cronkley Fell Frequent Occasional Bowlees Quarry White Well enclosure Common Bowlees & High Force Frequent Occasional Frequent Wynch Bridge & Holwick Head River Tees Frequent Bowlees Common Bowlees & High Force

<b>Scientific Name</b>	<b>Common Name</b>	<b>Location</b>
<i>Rubus saxatilis</i>	Stone Bramble	Bowlees & High Force
<i>Sanguisorba officinalis</i>	Great Burnet	Occasional
<i>Sorbus aria</i>	Whitebeam	High Force
<i>Sorbus aucuparia</i>	Rowan	Occasional
<i>Sorbus rupicola</i>	Rock Whitebeam	Downstream of Wynch Bridge & Low Force
<b>Rubiaceae</b>	<b>Bedstraw Family</b>	
<i>Cruciata laevipes</i>	Crosswort	Common
<i>Galium aparine</i>	Cleavers	Bowlees
<i>Galium boreale</i>	Northern Bedstraw	Wynch Bridge & Cronkley Bridge
<i>Galium odoratum</i>	Sweet Woodruff	High Force
<i>Galium saxatile</i>	Heath Bedstraw	Bowlees & High Force
<i>Galium sternerii</i>	Limestone Bedstraw	Pennine Way & Cronkley Fell
<i>Galium uliginosum</i>	Fen Bedstraw	Bowlees pasture
<i>Galium verum</i>	Lady's Bedstraw	Occasional
<b>Saliciaceae</b>	<b>Willow Family</b>	
<i>Populus tremula</i>	Aspen	Downstream of Wynch Bridge & High Force
<i>Salix caprea</i>	Goat Willow	High Force
<i>Salix caprea ssp sphacelata</i>	a Goat willow	Cronkley Bridge
<i>Salix cinerea</i>	Grey Willow	Bowlees
<i>Salix eleagnos</i>	Olive (Lavevder-leaved) Willow	Hanging Shaw Carpark
<i>Salix pentandra</i>	Bay Willow	Downstream from Wynch Bridge
<b>Sapindaceae</b>	<b>Maple Family</b>	
<i>Acer campestre</i>	Field Maple	Bowlees
<i>Acer pseudoplatanus</i>	Sycamore	Common
<b>Saxifragaceae</b>	<b>Saxifrage Family</b>	
<i>Chrysosplenium oppositifolium</i>	Opposit-leaved Golden-saxifrage	Wat Garth & Gibson's Cave
<i>Saxifraga aizoides</i>	Yellow Saxifrage	Widdybank Farm & Cetry Bank
<b>Scrophulariaceae</b>	<b>Figwort Family</b>	
<i>Scrophularia nodosa</i>	Figwort	High Force
<b>Ulmaceae</b>	<b>Elm Family</b>	
<i>Ulmus glabra</i>	Wych Elm	Occasional
<b>Urticaceae</b>	<b>Nettle Family</b>	
<i>Urtica dioica</i>	Common Nettle	Common
<b>Valerianaceae</b>	<b>Valerian Family</b>	
<i>Valeriana dioica</i>	Marsh Valerian	Pennine Way & Herdship
<i>Valeriana officinalis</i>	Valerian	High Force
<b>Veronicaceae</b>	<b>Speedwell Family</b>	
<i>Digitalis purpurea</i>	Foxglove	Common
<i>Veronica beccabunga</i>	Brooklime	Wynch Bridge & Wat Garth
<i>Veronica chamaedrys</i>	Germander Speedwell	Common
<i>Veronica officinalis</i>	Heath Speedwell	Cronkley Fell
<i>Veronica serpyllifolia subsp. humifusa</i>	Thyme-leaved Speedwell	Cronkley Fell & High Froce

<b>Scientific Name</b>	<b>Common Name</b>	<b>Location</b>
<b>Violaceae</b>		
<i>Viola lutea</i>	Mountain Pansy	Frequent
<i>Viola riviniana</i>	Common Dog-violet	Occasional
<i>Viola reichenbachiana</i>	Early Dog-violet	Wynch Bridge
<b>Monocots</b>		
<b>Amaryllidaceae</b>		
<i>Allium ursinum</i>	Wild Garlic	Occasional
<b>Asparagaceae</b>		
<i>Hyacinthoides non-scripta</i>	Bluebell	Bowlees & Hgh Froce
<b>Cyperaceae</b>		
<i>Blasmus compressus</i>	Flat sedge	Cow Green corner and Bowlees Quarry
<i>Carex acutiformis</i>	Lesser Pond Sedge	Downstream from Holwick Head Bridge
<i>Carex capillaris</i>	Hair Sedge	Cronkley Fell & Cetry Bank
<i>Carex demissa</i>	Common Yellow-sedge	Wynch Bridge
<i>Carex echinata</i>	Star Sedge	Cronkley Fell & Widdybank Farm
<i>Carex flacca</i>	Glaucous Sedge	Low Froce & Widdybank Farm
<i>Carex leporina</i>	Oval Sedge	Pennine Way & Widdybank Farm
<i>Carex nigra</i>	Common Sedge	Widdybank Farm
<i>Carex panicea</i>	Carnation Sedge	Cronkley Fell
<i>Carex pulicaris</i>	Flea Sedge	Cronkley Fell & Widdybank Farm
<i>Carex sylvatica</i>	Wood Sedge	High Force
<i>Eriophorum angustifolium</i>	Common Cottongrass	Widdybank Farm
<i>Eriophorum vaginiatum</i>	Hare's-tail Cottongrass	White Well enclosure & Widdybank Farm
<i>Kobresia simpliciuscula</i>	False Sedge	Cetry Bank
<b>Iridaceae</b>		
<i>Iris pseudacorus</i>	Yellow Iris	Driving
<b>Juncaceae</b>		
<i>Juncus bufonis</i>	Toad Rush	Pennine Way
<i>Juncus conglomeratus</i>	Compact Rush	Frequent
<i>Juncus effusus</i>	Soft Rush	Common
<i>Luzula sylvatica</i>	Greater Wood-rush	Bowlees & High Force
<b>Liliaceae</b>		
<i>Narthecium ossifragum</i>	Bog Asphodel	Occasional
<i>Tofieldia pusilla</i>	Scottish Asphodel	Cronkley Fell, Enclosure 1
<b>Orchidaceae</b>		
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	Common
<i>Dactylorhiza incarnata ssp incarnata</i>	Early Marsh-orchid	Widdybank Farm
<i>Dactylorhiza maculata ssp ericetorum</i>	Heath Spotted-orchid	River Tees & Herdship
<i>Dactylorhiza purpurella</i>	Northern Marsh-orchid	Common
<i>Dactylorhiza x venusta</i>	Hybrid Orchid (D. fuchsii x purpurella)	Common
<i>Dactylorhiza x formosa</i>	Hybrid Orchid (D. maculata x purpurella)	Hanging Shaw Carpark
<i>Epipactis atrorubens</i>	Dark-red Helleborine	White Well enclosure
<i>Gymnadenia borealis</i>	Heath Fragrant-orchid	Widdybank Farm
<i>Gymnadenia conopsea</i>	Chalk Fragrant-orchid	Frequent
<i>Listera ovata</i>	Common Twayblade	Occasional



Scientific Name	Common Name	Location
<i>Platanthera bifolia</i>	Lesser Butterfly-orchid	Herdwick
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	Bowlees-Gibson's cave
<i>putative Platanthera x hybrida</i>	Hybrid Butterfly-orchid	Herdship (According to the expert it is possible and is very likely to occur as both parents are there, but leader's photographs were not clear enough to be conclusive)

**Poaceae**

*Anthoxanthum odoratum*  
*Arrhenatherum elatius*  
*Brachypodium sylvaticum*  
*Briza media*  
*Bromus hordeaceus*  
*Bromopsis ramosa*  
*Cynosorus cristatus*  
*Dactylis glomerata*  
*Deschampsia cespitosa*  
*Deschampsia flexuosa*  
*Elytrigia repens*  
*Festuca vivipara*  
*Glyceria fluitans*  
*Holcus lanata*  
*Lolium perenne*  
*Melica uniflora*  
*Molinia caerulea*  
*Nardus stricta*  
*Phalaris arundinacea*  
*Phleum pratensis*  
*Poa annua*  
*Poa nemoralis*  
*Poa pratensis*  
*Poa trivialis*  
*Sesleria caerulea*

**Grass Family**

Sweet Vernal Grass Occasional  
False Oat-grass Occasional  
False Brome High Force  
Quaking Grass Common  
Soft-brome Cronkely Farm & Widdybank Farm  
Hairy-brome Bowlees & High Force  
Crested Dog's-tail Common  
Cock's-foot Common  
Tufted Hair-grass Common  
Wavy Hair-grass Pennine Way  
Common Couch Bowlees  
Viviparous Fescue Low Force  
Floating Sweet-grass Wat Garth  
Yorkshire Fog Common  
Perennial Rye-grass Frequent  
Wood Melick High Force  
Purple Moor-grass Occasional  
Mat-grass Occasional  
Reed Canary-grass Downstream from Holwick Head Bridge  
Timothy Cronkely Farm  
Annual Meadow-grass Common  
Wood Meadow-grass High Force  
Smooth Meadow-grass Frequent  
Rough Meadow-grass Bowlees  
Blue Moor-grass Occasional

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

	Common name	Scientific name	June/July			
			30	1	2	3
1	Black Grouse	<i>Lyrurus tetrix</i>			11	
2	Red Grouse	<i>Lagopus lagopus</i>		✓	✓	
3	Common Pheasant	<i>Phasianus colchicus</i>		✓	✓	
4	Mallard	<i>Anas platyrhynchos</i>	✓	✓	✓	✓
5	Common Buzzard	<i>Buteo buteo</i>	✓			
6	Common Kestrel	<i>Falco tinnunculus</i>			✓	
7	Eurasian Oystercatcher	<i>Haematopus ostralegus</i>	✓	✓	✓	✓
8	Northern Lapwing	<i>Vanellus vanellus</i>		✓	✓	✓
9	Common Snipe	<i>Gallinago gallinago</i>			✓	
10	Eurasian Curlew	<i>Numenius arquata</i>	✓	✓	✓	
11	Black-headed Gull	<i>Chroicocephalus ridibundus</i>	✓	✓	✓	✓
12	Common Wood Pigeon	<i>Columba palumbus</i>	✓		✓	✓
13	Eurasian Collared Dove	<i>Streptopelia decaocto</i>			✓	

	Common name	Scientific name	June/July			
			30	1	2	3
14	Tawny Owl	<i>Strix aluco</i>		H	✓	
15	Common Swift	<i>Apus apus</i>			✓	✓
16	European Green Woodpecker	<i>Picus viridis</i>				✓
17	Western Jackdaw	<i>Coloeus monedula</i>			✓	✓
18	Carrion Crow	<i>Corvus corone</i>			✓	✓
19	Coal Tit	<i>Parus ater</i>			✓	
20	Great Tit	<i>Parus major</i>			✓	
21	Eurasian Blue Tit	<i>Cyanistes caeruleus</i>			✓	
22	Eurasian Skylark	<i>Alauda arvensis</i>		H	✓	
23	Barn Swallow	<i>Hirundo rustica</i>	✓	✓	✓	✓
24	Common House Martin	<i>Delichon urbicum</i>	✓	✓	✓	✓
25	Common Chiffchaff	<i>Phylloscopus collybita</i>				H
26	Eurasian Wren	<i>Troglodytes troglodytes</i>		H	✓	
27	Common Blackbird	<i>Turdus merula</i>	✓		✓	✓
28	Song Thrush	<i>Turdus philomelos</i>	✓	✓	✓	✓
29	European Robin	<i>Erithacus rubecula</i>	✓		✓	✓
30	House Sparrow	<i>Passer domesticus</i>	✓		✓	✓
31	Dunnock	<i>Prunella modularis</i>			✓	✓
32	Western Yellow Wagtail	<i>Motacilla flava flavissima</i>	✓			✓
33	Pied Wagtail	<i>Motacilla alba yarrellii</i>			✓	
34	Common Chaffinch	<i>Fringilla coelebs</i>	✓		✓	
35	Eurasian Siskin	<i>Spinus spinus</i>	✓		✓	
36	Twite	<i>Linaria flavirostris</i>		✓		

## Mammals

1	Rabbit	<i>Oryctolagus cuniculus</i>	✓	✓	✓	
2	Roe Deer	<i>Capreolus capreolus</i>			✓	
3	Stoat	<i>Mustela erminea</i>				✓
4	Common Shrew	<i>Sorex araneus</i>		✓		
5	Common Pipistrelle	<i>Pipistrellus pipistrellus</i>			✓	

## Reptiles &amp; Amphibians

1	Common Frog	<i>Rana temporaria</i>			✓	
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## Butterflies

2	Small Skipper	<i>Thymelicus sylvestris</i>			✓	
4	Common Blue	<i>Polyommatus icarus</i>		✓	✓	
6	Red Admiral	<i>Vanessa atalanta</i>		✓		
8	Wall Brown	<i>Lasiommata megera</i>		✓		
9	Ringlet	<i>Aphantopus hyperantus</i>		✓		

## Moths

1	Bird-cherry Ermine (web)	<i>Yponomeuta evonymella</i>	✓			✓
2	Chimney Sweeper	<i>Odezia atrata</i>			✓	