

The Wild Flowers of Upper Teesdale

Naturetrek Tour Report

21 – 24 June 2013



Pinguicula vulgaris (Butterwort)



Viola lutea (MountainPansy)



Mimulus x robertsii (Hybrid Monkeyflower)

Report and images compiled by Dawn Nelson



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	Bob Hodgson	
	Andrew Lapworth	
	Paul Wood	

Day 1

Friday 21st June

Bowlees and banks of the River Tees near Wynch Bridge

Weather: warm and sunny

The group met up at the appointed time in the hotel bar, we introduced ourselves and soon set off in glorious sunshine for our first walk in this beautiful valley. We parked at Bowlees noting *Ulmus glabra* (Wych Elm), the newly reopened visitor centre, a good stand of *Chenopodium bonus-henricus* (Good King Henry) and *Phoenicurus phoenicurus* (Redstart). We passed through classic hay meadows spotting *Ranunculus acris* (Meadow Buttercup), and *Anthoxanthem odoratum* (Sweet Vernal Grass), and then took a short detour to photograph Low Force and a few brave souls jumping off the rocks and swimming below the waterfall.

Then we crossed over Wynch Bridge, one at a time, and ventured downstream to see the *Sorbus rupicolor* (Rock Whitebeam) on the cliff top above us. We identified *Dactylorhiza fuchsii* (Common Spotted-orchid) and *Dactylorhiza purpurella* (Northern Marsh-orchid) along the way. David spotted some more orchids on one of the islands through his binoculars so, the water level in the river being very low; we went to explore. The Orchids proved to be *Dactylorhiza x venusta*, the hybrid of the two we had previously seen; with the distinctive oblong spotting of *Dactylorhiza fuchsia* (Common Spotted-orchid), and the deep colour and lip shape of *D. purpurella* (Northern Marsh-orchid). This hybrid it is frequent here. Finding some bushes of *Potentilla fruticosa* (Shrubby Cinquefoil) was also a treat though due to the very late season they were sadly not in flower, although *Solidago virgaurea* (Goldenrod) was. From here we also had a very good view of the main population of *Sorbus rupicolor* (Rock Whitebeam), which grows on the northern bank of the River Tees on craggy rocks and is too inaccessible to get close too.

Upstream from Winch Bridge we admired the sheep sculpture, *Geranium sylvaticum* (Wood Crane's-bill) and distinctive leaves and buds of *Cirsium heterophyllum* (Melancholy Thistle), we did find a few in flower over the course of the weekend. Further on we saw *Lathyrus linifolius* (Bitter Vetch) noting the blue calyx and some *Antennaria dioica* (Mountain Everlasting). *Betula pubescens ssp tortuosa* (Upland Downy Birch) was also admired and we rubbed the leaves to get its fruity resinous scent. We explored lots of tufts, rocky ledges and wet seepages finding *Carex caryophyllea* (Spring Sedge), *Salix repens* (Creeping Willow) and some *Pinguicula vulgare* (Common Butterwort) as well as a very large 'leafy' moss that Graham identified as *Rhizomnium punctata* (Dotted Thyme Moss).

We arrived back at the hotel to be met by Chris McCarty, the Natural England warden for Moor House National Nature Reserve, who kindly treated us to an in depth talk on the geology, history and husbandry of the area, which combine to make it so exceptionally rich in rare plant species. A wonderful balmy evening with lots of good species in pleasant, knowledgeable company, followed by a hearty meal was a great start to our short break.

Day 2

Saturday 22nd June

Cronkley Fell

Weather: persistent drizzle, some heavy rain and occasional sunny spells, strong wind

We set off from Hanging Shaw car park, across the road on the footpath towards Cronkley Bridge. The first interesting find was masses of *Mimulus x robertsii* (Hybrid Monkeyflower) in a small stream. Then at Cronkley Bridge we noted the *Salix caprea* ssp *sphaelata* (a Goatwillow), the Latin translates as gangrenous, due to the browning of the leaf tips, but it was still too early in the season for this to be very apparent to us. From here we headed up hill through the largest Juniper woodland in England and recorded a good range of ferns including *Phegopteris connectilis* (Beech Fern), and *Cryptogramma crispa* (Parley Fern). A little further on in a damp flush we saw *Pedicularis sylvatica* (Lousewort) and *Carex demissa* (Long-bracted Yellow-sedge), in another damp flush Bob drew our attention to the leaves of *Viola palustris* (Marsh Violet) and Dawn showed us *Eriophorum vaginatum* (Hare's-tail Cottongrass).

We took our lunch in the shelter of a low rocky cliff and found some more *Cryptogramma crispa* (Parley Fern) here. Then we went up to the top and into the first of the exclosures (fenced areas to keep the sheep out, allowing the rarer vegetation to thrive on the sugar limestone). Our first find was appropriately enough one of the famous Teesdale Assemblage of rare plants *Minuartia verna* (Spring Sandwort), closely followed by another, *Heleanthemum oelandicum* ssp *levigatum* (Hoary Rock-rose) both in quantity, some *Galium sternerii* (Limestone Bedstraw) was also seen. Good views of Golden Plover were enjoyed.

We carried on exploring this wondrous upland habitat and soon Pauline and Graham called Dawn over to a mystery member of the Cabbage family. Out came the books and despite having no fruits we decided it was *Draba incana* (Hoary Whitlowgrass); this identification was soon confirmed when we found quite a few more with their unmistakable twisted fruits. However we decided to rename it Holly Whitlowgrass due to the shape and prickliness of the leaves – unmentioned in the books. As we were about to climb back out of the last of the exclosures, Pauline found a flowering specimen on *Gentiana verna* (Spring Gentian) this, along with the *Sesleria caerulea* (Blue Moor-grass) showing the blueness for which it is named, were our bonus for the extraordinarily late season this year.

We headed back down and followed Bob into another boggy area, which proved to be very rewarding giving us many flowering specimens of *Thalictrum alpinum* (Alpine Meadow-rue), *Juncus triglumis* (Three-flowered Rush) and some *Equisetum variegatum* (Variegated Horsetail). Back down at Cronkley Bridge we headed upstream on the Durham side for a while and added *Gymnadenia borealis* (Heath Fragrant Orchid) with its delightful clove-like scent and *Dactylorhiza maculata* (Heath Spotted-orchid) to our list. The last find of the day was a huge stand of *Centaurea montana* (Perennial Cornflower) a garden escape thriving on the verge near the car park. Damp but happy with our finds we returned to Middleton-in-Teesdale, to refresh ourselves and our memories of the day with a résumé of our finds and another well earned dinner.

Day 3

Sunday 24th June

Widdybank Farm and Cetry Bank, followed by a drive, then Bowlees Quarry and Bowlees Beck to Gibson's Cave

Weather: Warm with some heavy rain in the morning, brightening in the afternoon

Our destination today was Widdybank Farm, where we had special permission to explore a species rich hay meadow. *Persicaria bistorta* (Common Bistort) was found by the farm. Sadly the drizzle set in before we began our foray but nevertheless we managed to see, enjoy and photograph a wide range of plants including *Dactylorhiza incarnata* (Early Marsh-orchid), *Valeriana dioica* (Marsh Valerian) both male and female, as well as *Pedicularis palustris* (Marsh Lousewort) and *Carex hostiana* (Tawny Sedge).

We then headed along the footpath to Cetry Bank, crawling under the electric fence we explored the steep shelving area on the north side of the river finding some of its rarities such as *Saxifraga aizoides* (Yellow Saxifrage), *Plantago maritima* (Sea Plantain), *Carex pulicaris* (Flea Sedge) and *Bartsia alpina* (Alpine Bartsia). The rain got heavier making it hard to see clearly, so we returned to the minibus for our picnic and then went for a scenic drive.

At Peghorn Lodge we stopped to examine *Imperatoria ostruthium* (Masterwort) with its typical umbellifer flowers and inflated sheathing stalks. A little further on we stopped to admire, and photograph, a whole meadow full of *Trollius europaeus* (Globeflower). On the verges nearby were *Caltha palustris* (Marsh Marigold) and *Alchemilla grablra* (Smooth Lady's-mantle). Further on at Force Foot, Dawn took us to see an entire bank of *Primula farinosa* (Bird's-eye Primrose) in flower and interspersed with *Myosotis secunda* (Creeping Forget-me-not) and a variety of Orchids and Buttercups.

The rain had stopped now and the sun was shining; so we visited Bowlees Quarry finding *Blysmus compressus* (Flat Sedge), *Korobresia simpliciuscula* (False Sedge) and two Hawk's-beards; *Crepis paludosa* (Marsh Hawk's-beard) and the much rarer *Crepis mollis* (Northern Hawk's-beard) growing side by side for easy comparison. A walk alongside the Bowlees Beck took us to Gibson's Cave and Summer Hill Force, another spectacular waterfall. Along the way we spotted *Chrysosplenium oppositifolium* (Opposite-leaved Golden-Saxifrage) and more *Gymnadenia borealis* (Heath Fragrant Orchid) and *Gymnadenia conopsea* (Fragrant Orchid) conveniently again for comparison, growing side by side on a grassy bank. Also seen much to Pauline's delight was *Platanthera chlorantha* (Greater Butterfly-orchid). At the cave itself we found *Cystopteris fragilis* (Brittle Bladder-fern) and *Conocephalum conicum* (Great Scented Liverwort). Walking back we noted *Sanicula europea* (Sanicle), *Rubus saxatilis* (Stone Bramble) and on finding *Tilia platyphyllos* (Large-leaved Lime) with its velvety leaves (probably planted), Dawn went through the differences in the two native species and their more common and much planted hybrid.

We completed our lists before an early dinner and later drove out to see if we could get a sighting of *Lyrurus tetrix* (Black Grouse), at their traditional leking site. With Andrew's telescope we were hopeful of some good views but nothing could have prepared us for just how close a sighting we had of nine males! First only a few hundred meters away feeding contentedly and showing well. Then we noticed they were heading up towards the road ahead, so slowly we coasted towards them and one was just on the opposite verge of the narrow road. We continued to the turning place at the bottom and came back up to find most of them at the top of the field near the road, there was no longer any need for the scope or even binoculars!

After a prolonged study of these beautiful birds they finally became aware of our presence and flew off, giving us a view of their white rumps and lyre-shaped tails. Just to complete the perfect evening a huge moon rose over the hill beyond.

Day 4

Monday 25th June

Middleton-in-Teesdale, High Force and downstream on both sides of the River Tees

Weather: Overcast with a light breeze

Graham and Paul had both been exploring around the area near the hotel and reported some good finds so today Dawn offered a short optional walk before breakfast. Bob, Graham, Paul and Pauline all came and we set off towards Hudes Hope Beck. First we noted some female fruiting *Marchantia polymorpha* (Umbrella Liverwort) in the cobbles near the hotel. Next a good stand of *Lilium pyrenaicum* (Pyrenean Lily) which, though an introduction, is well naturalised in the area. We continued up the road and recorded *Arabidopsis thaliana* (Tale Cress) and *Geranium lucidum* (Shining Crane's-bill) on a wall, as well as a wide variety of garden escapes and throw-outs such as *Cymbalaria muralis* (Ivy-leaved Toadflax), *Lamium maculatum* (Spotted Dead-nettle) and *Polygonatum x hybridum* (Garden Solomon's-seal).

David left this morning after breakfast, but the rest of us set off to High Force. Taking the footpath down to the river we noted *Arctium minus* (Lesser Burdock), *Melica uniflora* (Wood Melick) and *Mycelis muralis* (Wall Lettuce). The riverside pasture yielded a family of *Sitta europaea* (Euroasian Nuthatch) and our only moth of the weekend evident as caterpillars in cobwebby cocoons on *Frangula alnus* (Alder Buckthorn). Crossing the river at Holwick Head Bridge we saw the male form of this morning's first find *Marchantia polymorpha* (Umbrella Liverwort) and on the Yorkshire side we found more *Dactylorhiza x venusta* growing in a mixed stand of the branched *Equisetum sylvaticum* (Wood Horsetail), the much rarer *E. pratense* (Shade Horsetail) and some *E. arvense* (Field Horsetail). We looked closely to see that the first two species have three-angled branches and the latter has four angles.

Carrying on downstream, we came to a large stand of *Carex acutiformis* (Lesser Pond-sedge) before returning upstream and past the bridge towards High Force. Soon another flower filled bank came into view, this time it was *Viola lutea* (Mountain Pansy) which had us on our hands and knees in admiration and busy taking photos of the many different colour forms. Paul found a clump of *Oreopteris limbosperma* (Lemon-scented Fern), and last year's seed-heads and some new leaves of *Narthecium ossifragum* (Bog Asphodel). Bob drew our attention to *Carex binervis* (Green-ribbed Sedge).

After admiring High Force from here we headed back to the bridge and went down on the other side of the river to see it from below. *Athyrium fleix-femina* (Lady Fern) and *Epilobium spp* (Willowherb) and *Hypericum spp* (St. John's-wort), including *H. pulchrum* (Slender St John's-wort) were among the plants seen on the way down. At the viewing point we found *Galium odoratum* (Sweet Woodruff). The last record, of the long list, for the weekend was found and identified by Graham; *Campanula rotundifolia* (Harebell) showing its round basal leaves very clearly, but sadly not yet in flower.

Although the season being so very late meant we didn't get to see the verges awash with *Geranium pratense* (Meadow Crane's-bill) and *Cirsium heterophyllum* (Melancholy Thistle); we still had a most enjoyable time and a great range of plants.

We had some fantastic quantities of what we did find, perhaps this was because of the strange weather we have been experiencing. The lasting memories for us all will be the huge quantities of *Primula farinosa* (Bird's-eye Primrose), *Viola lutea* (Mountain Pansy) and *Trollius europaeus* (Globeflower) filling whole banks and meadows. Nature always manages to produce a good show, especially in Upper Teesdale!

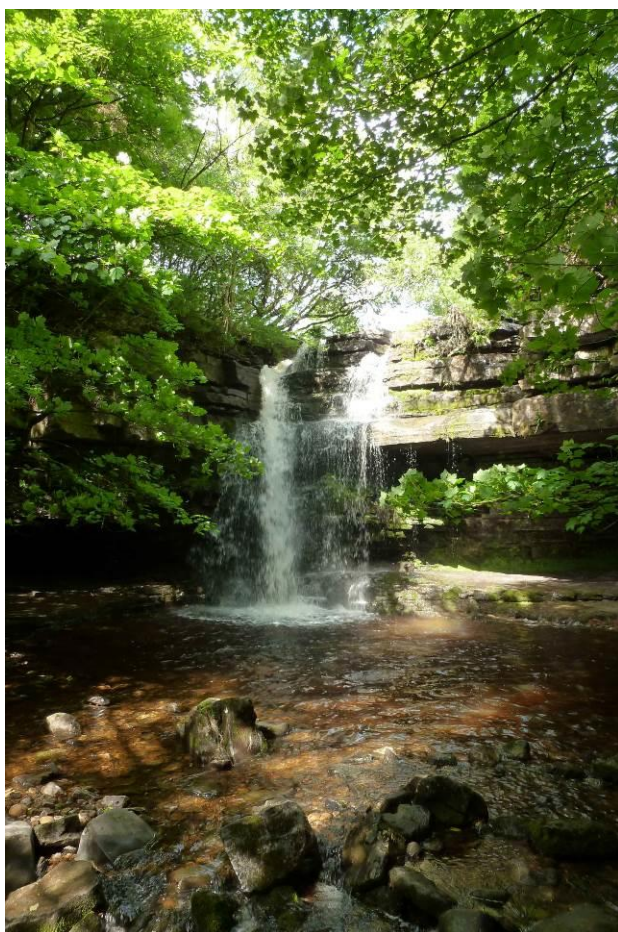
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Summer Hill Force



Clients among the *Viola lutea* (Mountain Pansies)

Species Lists

Plants

Scientific Name	Common Name	Location
PTERIDOPHYTES		
FERNS & ALLIES		
Selaginellaceae	Lesser Clubmoss Family	
<i>Selaginella selaginoides</i>	Lesser Clubmoss	Cronkley Fell , Cetry Bank
Equisetaceae	Horsetail Family	
<i>Equisetum arvense</i>	Field Horsetail	frequent Widdybank Farm, Holwick Head
<i>Equisetum pratense</i>	Shady Horsetail	Holwick Head
<i>Equisetum sylvaticum</i>	Wood Horsetail	Cronkley Fell , Cetry Bank
<i>Equisetum variegatum</i>	Variiegated Horsetail	
Aspleniaceae	Spleenwort Family	
<i>Asplenium trichomanes ssp trichomanes</i>	Maidenhair Spleenwort	Cronkley Fell , Cetry Bank
<i>Asplenium ruta -muralis</i>	Wall Rue	Cronkley Bridge
<i>Aspleniums colopendrium</i>	Hart's-tongue Fern	Cronkley Bridge
Blechnaceae	Hard-fern Family	
<i>Blechnum spicant</i>	Hard-fern	Cronkley Fell
Dennstaedtiaceae	Bracken Family	
<i>Pteridium aquilinum</i>	Bracken	frequent
Dryopteridaceae	Buckler-fern Family	
<i>Dryopteris affinis ssp affinis</i>	Scaly Male-fern	Cronkley Fell
<i>Dryopteris filix-mas</i>	Male-fern	Bowlees
<i>Polystichum aculeatum</i>	Hard Shield-fern	Nr High Force
<i>Polystichum setiferum</i>	Soft Shield-fern	Gibson's Cave
Polypodiaceae	Polypody Family	
<i>Polypodium vulgare</i>	Common Polypody	Cronle;y Fell, Holwick Head Bridge
Pteridaceae	Ribbon Fern Family	
<i>Cryptogramma crispa</i>	Parsley fern	Cronkley Fell
Thelypteridaceae	Marsh Fern Family	
<i>Phegopteris connectilis</i>	Beech Fern	Cronkley Fell
<i>Oreopteris limbosperma</i>	Lemon-scented Fern	Nr High Force
Woodsiaceae	Lady-fern Family	
<i>Anhyrium felix-femina</i>	Lady-fern	Nr High Force
<i>Cystopteris fragilis</i>	Brittle Bladder-fern	Gibson's Cave, High Force
PINOPSIDA		
CONIFERS		
Cupressaceae	Juniper Family	
<i>Juniperus communis</i>	Common Juniper	Cronkley Fell, High Force

Scientific Name	Common Name	Location
Pinaceae <i>Pinus sylvestris</i>	Pine Family Scot's Pine	Low Froce
MAGNOLIOPSIDA		
FLOWERING PLANTS		
Magnoliidae		
Amaranthaceae <i>Chenopodium bonus-henricus</i>	Goosefoot Family Good King Henry	Bowlees
Apiaceae <i>Aegoposium podagraria</i> <i>Angelica sylvestris</i> <i>Anthriscus sylvestris</i> <i>Conopodium majus</i> <i>Heracleum sphondilium</i> <i>Imperatoria ostruthium</i> <i>Myrrhis odorata</i> <i>Pimpinella saxifraga</i> <i>Sanicula europaea</i>	Carrot Family Ground Elder Angelica Cow Parsley Pignut Hogweed Masterwort Sweet Cicely Burnet saxifrage Sanicle	Middleton-in-Teesdale frequent frequent common frequent Peghorn Lodge Bowlees frequent Bowlees Beck
Apocynaceae <i>Vinca major</i>	Periwinkle Family Greater Periwinkle	Middleton-in-Teesdale
Aquifoliaceae <i>Ilex aquifolium</i>	Holly Family Holly	Hudes Hope Beck
Araliaceae <i>Hedera hibernica</i>	Ivy Family Atlantic Ivy	Middleton-in-Teesdale
Asteraceae <i>Achillea millefolium</i> <i>Antennaria dioica</i> <i>Arctium minus</i> <i>Bellis perennis</i> <i>Centaurea montana</i> <i>Cirsium heterophyllum</i> <i>Cirsium arvense</i> <i>Cirsium palustre</i> <i>Cirsium vulgare</i> <i>Crepis mollis</i> <i>Crepis paludosa</i> <i>Hieracium vulgata sect. vulgatum</i> <i>Hypochaeris radicata</i> <i>Lapsana communis</i> <i>Leontodon hispidus</i> <i>Leucanthemum vulgare</i> <i>Matricaria discoides</i> <i>Mycelis muralis</i> <i>Petasites hybridus</i> <i>Pilosella officinarum</i> <i>Senecio jacobaea</i> <i>Senecio vulgaris</i>	Daisy Family Yarrow Mountain Everlasting Lesser Burdock Daisy Perennial Cornflower Melancholy Thistle Creeping Thistle Marsh Thistle Spear Thistle Northern Hawk's-beard Marsh Hawk's-beard Hawkweed Cat's-ear Nipplewort Rough Hawkbit Oxeye Daisy Pineappleweed Wall Lettuce Butterbur Mouse-ear Hawkweed Ragwort Groundsel	occasional upstream from Wynch Bridge Nr High Force common Hanging Shaw frequent frequent common frequent Bowlees Quarry, High Force Bowlees Quarry, High Force occasional upstream from Wynch Bridge Bowlees Beck occasional Hanging Shaw nr Cronkly Bridge Nr High Force driving occasional frequent Hudes Hope Beck

Scientific Name	Common Name	Location
<i>Solidago virgaurea</i>	Goldenrod	downstream from Wynch Bridge
<i>Sucissa pratensis</i>	Devil's-bit Scabious	occasional
<i>Taraxacum agg</i>	Dandelion group	common
Betulaceae	Birch Family	
<i>Alnus glutinosa</i>	Alder	common
<i>Betula pubescens</i>	Downy Birch	High Force
<i>Betula pubescens ssp tortuosa</i>	Downy Birch, upland subsp.	upstream from Wynch Bridge
<i>Corylus avellana</i>	Hazel	occasional
Boraginaceae	Borage Family	
<i>Myosotis arvensis</i>	Field Forget-me-not	Bowlees Quarry
<i>Myosotis discolor</i>	Changing Forget-me-not	downstream from Wynch Bridge
<i>Myosotis scorpiodes</i>	Water Forget-me-not	Unthank
<i>Myosotis secunda</i>	Creeping forget-me-not	Cronkley Fell, Force Foot
<i>Symphytum x uplandicum</i>	Russian Comfrey	Middleton-in-Teesdale
Brassicaceae	Cabbage Family	
<i>Alliaria petiolata</i>	Garlic Mustard	Hanging Shaw
<i>Arabidopsis thaliana</i>	Thale Cress	Middleton-in-Teesdale
<i>Cardamine flexuosa</i>	Wavy Bittercress	Bowlees Beck
<i>Cardamine pratensis</i>	Cuckooflower	frequent
<i>Capsella bursa-pastoris</i>	Shepherd's Purse	nr Cronkly Bridge
<i>Cochlearia pyrenaica subsp. alpina</i>	Pyrenean Scurvygrass	downstream from Wynch Bridge, Cronkley Bridge
<i>Draba incana</i>	Hoary Whitlowgrass	Cronkley Fell
<i>Erophila verna</i>	Common Whitlowgrass	Cronkley Fell
<i>Hesperis matronalis</i>	Dame's-violet	occasional
Callitrichaceae	Water-starwort Family	
<i>Callitriche stagnalis</i>	Common Water-starwort	footpath to Cronkley Bridge
Campanulaceae	Bellflower Family	
<i>Campanula latifolia</i>	Giant Bellflower	High Force
<i>Campanula rotundifolia</i>	Harebell	High Force
Caprifoliaceae	Honeysuckle Family	
<i>Lonicera periclymenum</i>	Honeysuckle	High Force
<i>Sambucus nigra</i>	Elderberry	occasional
Caryophyllaceae	Pink Family	
<i>Cerastium fontanum</i>	Common Mouse-ear	frequent
<i>Lychnis flos-cuculi</i>	Ragged Robin	High Force
<i>Minuartia verna</i>	Spring Sandwort	Cronkley Fell
<i>Sagina procumbens</i>	Procumbent Pearlwort	Middleton-in-Teesdale
<i>Silene dioica</i>	Red Campion	frequent
<i>Stellaria alsine</i>	Bog Stitchwort	Cronkley Fell
<i>Stellaria hollostea</i>	Greater Stitchwort	downstream from Wynch Bridge
<i>Stellaria media</i>	Common Chickweed	occasional
Convolvulaceae	Bindweed Family	
<i>Convolvulus arvensis</i>	Field Bindweed	Nr High Force

Scientific Name	Common Name	Location
Crassulaceae	Stonecrop Family	
<i>Sedum acer</i>	Biting stonecrop	Bowlees
<i>Sedum album</i>	White Stonecrop	Middleton-in-Teesdale
<i>Sedum spurium</i>	Caucasian Stonecrop	Middleton-in-Teesdale
Dipsacaceae	Teasel Family	
<i>Succisa pratensis</i>	Devil's-bit Scabious	occasional
Droseraceae	Sundew Family	
<i>Drosera rotundifolia</i>	Round-leaved Sundew	Cronkley Fell
Empetraceae	Crowberry Family	
<i>Empetrum nigrum subsp. nigrum</i>	Crowberry	Cronkley Fell
Ericaceae	Heather Family	
<i>Calluna vulgaris</i>	Heather	frequent
<i>Erica cinerea</i>	Bell Heather	
<i>Erica tetralix</i>	Cross-leaved Heath	occasional
<i>Vaccinium myrtillus</i>	Bilberry	occasional
<i>Vaccinium vitis-idaea</i>	Cowberry	
Euphrbiceae	Spurge Family	
<i>Mercurialis perennis</i>	Dog's Mercury	Bowlees, Hudes Hope Beck
Fabaceae	Pea Family	
<i>Trifolium dubium</i>	Lesser trefoil	Bowlees Quarry
<i>Trifolium medium</i>	Zig-zag Clover	Bowlees
<i>Trifolium pratense</i>	Red Clover	common
<i>Trifolium repens</i>	White Clover	common
<i>Lathyrus linifolius</i>	Bitter Vetch	upstream from Wynch Bridge
<i>Lathyrus pratensis</i>	Meadow Vetchling	Hanging Shaw
<i>Lotus corniculatus</i>	Birdsfoot-trefoil	occasional
<i>Vicia sepium</i>	Bush Vetch	upstream from Wynch Bridge
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 lucidum</i>	Shining Crane's-bill	Middleton-in-Teesdale
<i>Geranium pratense</i>	Meadow Crane's-bill	Bowlees Quarry (white flowered form)
<i>Geranium robertianum</i>	Herb Robert	common
<i>Geranium sylvaticum</i>	Wood Crane's-bill	common
Hypericaceae	St John's-wort Family	
<i>Hypericum pulchrum</i>	Slender St John's-wort	Nr High Force
<i>Hypericum tetrapterum</i>	Square-stalked St John's-wort	Nr High Force
Lamiaceae	Dead-nettle Family	
<i>Ajuga reptans</i>	Common Bugle	frequent

Scientific Name	Common Name	Location
<i>Lamium album</i>	White Dead-nettle	Cronkley Fell
<i>Lamium maculatum</i>	Spotted Deadnettle	Middleton-in-Teesdale
<i>Mimulus x robertsii</i>	Hybrid Monkeyflower	footpath to Cronkley Bridge
<i>Prunella vulgaris</i>	Selfheal	Bowlees Quarry
<i>Stachys sylvatica</i>	Hedge Woundwort	Bowlees Quarry
<i>Teucrium scorodonia</i>	Wood Sage	Bowlees Quarry
<i>Thymus polytrichus</i>	Wild Thyme	occasional
Linaceae	Flax Family	
<i>Linum catharticum</i>	Purging or Fairy Flax	occasional
Lentibulariaceae	Butterwort Family	
<i>Pinguicula vulgaris</i>	Common Butterwort	frequent
Malvaceae	Mallow Family	
<i>Tilia platyphyllos</i>	Large-leaved Lime	Bowlees car park
<i>Tilia x europaea</i>	Hybrid Lime =T. platyphyllos x T. cordata	Nr High Force
Oleaceae	Olive Family	
<i>Fraxinus excelsior</i>	Ash	common
Onagraceae	Willowherb Family	
<i>Chamerion angustifolium</i>	Rosebay Willowherb	Bowlees Beck
<i>Circaea lutetiana</i>	Enchanter's-nightshade	Hudes Hope Beck
<i>Epilobium hirsutum</i>	Great Willowherb	Nr High Force
<i>Epilobium montanum</i>	Broad-leaved Willowherb	occasional
Orobanchaceae	Broomrape Family	
<i>Bartsia alpina</i>	Alpine Bartsia	Widdybank Farm, Cetry Bank
<i>Euphrasia sp.</i>	Eyebright	Cetry Bank, Bowlees Quarry
<i>Euphrasia nemorosa</i>	Eyebright	Bowlees Quarry
<i>Pedicularis palustris</i>	Marsh Lousewort	Widdybank Farm
<i>Pedicularis sylvatica</i>	Lousewort	Cronkley Fell
<i>Rhinanthus minor</i>	Yellow-rattle	common
Oxalidaceae	Wood Sorrel Family	
<i>Oxalis acetosella</i>	Wood Sorrel	occasional
Papaveraceae	Poppy Family	
<i>Mecanopsis cambrica</i>	Welsh Poppy	Bowlees Beck
Plantaginaceae	Plantain Family	
<i>Plantago coronopus</i>	Stag's-horn Plantain	occasional
<i>Plantago lanecolata</i>	Ribwort Plantain	frequent
<i>Plantago major</i>	Greater Plantain	frequent
<i>Plantago maritima</i>	Sea Plantain	occasional
Polygalaceae	Milkwort Family	
<i>Polygalla serpyllifolia</i>	Heath Milkwort	frequent
<i>Polygalla vulgaris</i>	Common Milkwort	frequent
Polygonaceae	Knotweed Family	
<i>Persicaria bistorta</i>	Common Bistort	Widdybank Farm, driving

Scientific Name	Common Name	Location
<i>Persicaria vivipara</i>	Alpine Bistort	occasional
<i>Rumex acetosa</i>	Sorrel	frequent
<i>Rumex longifolius</i>	Northern Dock	occasional
<i>Rumex obtusifolius</i>	Broad-leaved Dock	occasional
Potamogetonaceae	Pondweed Family	
<i>Potamogeton polygonifolius</i>	Bog Pondweed	footpath to Cronkley Bridge
Primulaceae	Primrose Family	
<i>Primula farinosa</i>	Bird's-eye Primrose	frequent
<i>Primula veris</i>	Cowslip	occasional
<i>Primula vulgaris</i>	Primrose	Bowlees Beck, nr High Force
<i>Lysimachia nemorum</i>	Yellow Pimpernel	occasional
<i>Lysimachia punctata</i>	Dotted Loosestrife	Middleton-in-Teesdale
Ranunculaceae	Buttercup Family	
<i>Aquilegia vulgaris</i>	Columbine	upstream from Wynch Bridge
<i>Anemone nemorosa</i>	Wood Anemone	Bowlees, Widdybank Farm
<i>Caltha palustris</i>	Marsh Marigold	common
<i>Ranunculus acris</i>	Meadow Buttercup	common
<i>Ranunculus bulbosus</i>	Bulbous Buttercup	frequent
<i>Ranunculus flammula</i>	Lesser Spearwort	occasional
<i>Ranunculus repens</i>	Creeping Buttercup	frequent
<i>Thalictrum alpinum</i>	Alpine Meadow-rue	Cronkley Fell
<i>Trollius europaeus</i>	Globeflower	frequent
Rosaceae	Rose Family	
<i>Alchemilla filicaulis ssp vestita</i>	Hairy Lady's-mantle	Cronkley Fell
<i>Alchemilla glabra</i>	Smooth Lady's-mantle	frequent
<i>Alchemilla wichurae</i>	Rock Lady's-mantle	Cronkley Fell
<i>Crataegus monogyna</i>	Hawthorn	frequent
<i>Crataegus x media</i>	Hawthorn x Midland Hawthorn	Hude Hope Beck
<i>Filipendula ulmaria</i>	Meadow Sweet	frequent
<i>Geum rivale</i>	Water Avens	Bowlees
<i>Geum urbanum</i>	Wood Avens	Bowlees
<i>Geum x intermedium</i>	Hybrid Geum	frequent
<i>Helianthemum nummularium</i>	Common Rock-rose	River Tees nr Wynch Bridge
<i>Helianthemum oelandicum ssp levigatum</i>	Hoary Rock-rose	Cronkley Fell
<i>Potentilla anserina</i>	Silverweed	frequent
<i>Potentilla erecta</i>	Tormentil	common
<i>Potentilla fruticosa</i>	Shrubby Cinquefoil	downstream from Wynch Bridge
<i>Potentilla reptans</i>	Creeping Cinquefoil	Bowlees Quarry
<i>Potentilla sterilis</i>	Barren Strawberry	Bowlees
<i>Prunus avium</i>	Wild Cherry	Bowlees
<i>Prunus padus</i>	Bird Cherry	Bowlees
<i>Prunus spinosa</i>	Blackthorn	Nr High Force
<i>Ribes uva-crispa</i>	Gooseberry	Gibson's Cave, Hudes Hope Beck
<i>Rubus fruticosus</i>	Bramble	occasional
<i>Rubus ideaus</i>	Raspberry	Middleton-in-Teesdale
<i>Rubus saxatilis</i>	Stone Bramble	Bowlees
<i>Sanguisorba officinalis</i>	Great Burnet	occasional
<i>Saxifraga x urbium</i>	London Pride	Middleton-in-Teesdale

Scientific Name	Common Name	Location
<i>Sorbus aria</i>	Whitebeam	Nr High Force
<i>Sorbus aucuparia</i>	Rowan	frequent
<i>Sorbus rupicola</i>	Rock Whitebeam	downstream from Wynch Bridge
Rubiaceae	Bedstraw Family	
<i>Galium aparine</i>	Cleavers	Middleton-in-Teesdale
<i>Galium boreale</i>	Northern Bedstraw	upstream from Wynch Bridge, Cronkley Bridge
<i>Galium saxatile</i>	Heath Bedstraw	frequent
<i>Galium sternerii</i>	Limestone Bedstraw	Cronkley Fell
<i>Galium verum</i>	Lady's Bedstraw	occasional
Sapindaceae	Maple Family	
<i>Acer campestre</i>	Filed Maple	Bowlees
<i>Acer pseudoplatanus</i>	Sycamore	common
Saxifragaceae	Saxifrage Family	
<i>Chrysosplenium oppositifolium</i>	Opposite-leaved Golden-saxifrage	Bowlees Beck
<i>Saxifraga aizoides</i>	Yellow Saxifrage	Cetry Bank
Saliciaceae	Willow Family	
<i>Populus tremula</i>	Aspen	frequent
<i>Salix caprea</i>	Goat Willow	occasional
<i>Salix caprea ssp sphacelata</i>	a Goat willow	Cronkley Bridge
<i>Salix cinerea</i>	Grey Willow	nr High Force
<i>Salix phylicifolia</i>	Tea -leaved Willow	downstream from Wynch Bridge
<i>Salix repens</i>	Creeping Willow	upstream from Wynch Bridge
Scrophulariaceae	Figwort Family	
<i>Linaria purpurea</i>	Purple Toadflax	Middleton-in-Teesdale
<i>Scrophularia nodosa</i>	Figwort	Huded Hope Beck, High Force
<i>Veronica beccabunga</i>	Brooklime	occasional
<i>Veronica chamaedrys</i>	Germander Speedwell	occasional
<i>Veronica montana</i>	Wood Speedwell	downstream from Wynch Bridge
<i>Veronica officinalis</i>	Heath Speedwell	Cronkley Fell
<i>Veronica serpyllifolia subsp. humifusa</i>	Thyme-leaved Speedwell	occasional
Ulmaceae	Elm Family	
<i>Ulmus glabra</i>	Wych Elm	occasional
Urticaceae	Nettle Family	
<i>Urtica dioica</i>	Common Nettle	frequent
Valerianaceae	Valerian Family	
<i>Valeriana dioica</i>	Marsh Valerian	Widdybank Farm
<i>Valeriana officinalis</i>	Valerian	upstream from Wynch Bridge
Violaceae	Violet Family	
<i>Viola lutea</i>	Mountain Pansy	frequent
<i>Viola palustris</i>	Marsh Violet	Cronkley Fell
<i>Viola riviniana</i>	Common Dog-violet	Cronkley Fell

Scientific Name	Common Name	Location
Cyperaceae		
<i>Blysmus compressus</i>	Sedge Family Flat sedge	Bowlees Quarry
<i>Carex acutiformis</i>	Lesser Pond Sedge	downstream from Holwicck Bridge
<i>Carex binervis</i>	Green-ribbed Sedge	nr High Force
<i>Carex capillaris</i>	Hair Sedge	Cronkley Fell, Cetry Bank
<i>Carex careophyllea</i>	Spring Sedge	upstream from Wynch Bridge
<i>Carex demissa</i>	Long-bracted Yellow-sedge	occasional
<i>Cares dioica</i>	Dioecious Sedge	Cronkley Fell
<i>Carex echinata</i>	Star Sedge	Cronkley Fell, Widdybank Farm, Cetry Bank
<i>Carex ericetorum</i>	Rare Spring-sedge	Cronkley Fell
<i>Carex flacca</i>	Glaucous Sedge	frequent
<i>Carex hostiana</i>	Tawny Sedge	Widdybank Farm
<i>Carex leporina</i>	Oval Sedge	Cronkley Fell, nr High Force
<i>Carex nigra</i>	Common Sedge	Cronkley Fell
<i>Carex pallescens</i>	Pale Sedge	Bowlees, Nr High Force
<i>Carex panicea</i>	Carnation Sedge	frequent
<i>Carex pilulifera</i>	Pill Sedge	downstream from Wynch Bridge
<i>Carex pulicaris</i>	Flea Sedge	Cetry Bank
<i>Carex remota</i>	Remote Sedge	nr High Force
<i>Carex rostrata</i>	Bottle Sedge	Cronkley Fell
<i>Carex sylvatica</i>	Wood Sedge	Hudes Hope Beck
<i>Carex viridula ssp brachyrhyncha</i>	Long-bracted Yellow-sedge	occasional
<i>Eriophorum angustifolium</i>	Common Cottongrass	Widdybank Farm
<i>Eriophorum latifolium</i>	Broad-leaved Cottongrass	Widdybank Farm
<i>Eriophorum vaginiatum</i>	Hare's-tail Cottongrass	Cronkley Fell
<i>Eleocharis uniglumis</i>	One-flowered Spike-rush	Cronkley Fell
<i>Kobresia simpliciuscula</i>	False Sedge	Bowlees Quarry
<i>Trichophorum germanicum</i>	Deer Grass	Widdybank Farm, nr High Force
Juncaceae		
<i>Juncus acutiflorus</i>	Rush Family Sharp-flowered Rush	Cronkley Fell
<i>Juncus bufonis</i>	Toad Rush	Bowlees Quarry
<i>Juncus bulbosus</i>	Bulbous Rush	nr High Force
<i>Juncus conglomeratus</i>	Compact Rush	Cronkley Fell
<i>Juncus effusus</i>	Soft Rush	frequent
<i>Juncus squarrosus</i>	Heath Rush	occasional
<i>Juncus triglumis</i>	Three-flowered Rush	Cronkley Fell
<i>Luzula campestris</i>	Field Wood-rush	Cetry Bank
<i>Luzula multiflora ssp congesta</i>	Dense-headed Wood-rush	nr High Force
<i>Luzula multiflora ssp multiflora</i>	Heath Wood-rush	Bowlees, nr High Force
<i>Luzula pilosa</i>	Hairy Wood-rush	Cronkley Fell
<i>Luzula sylvatica</i>	Greater Wood-rush	Bowlees, nr High Force
Juncaginaceae		
<i>Triglochin palustris</i>	Arrowgrass Family Marsh Arrowgrass	Footpath to Cronkley Bridge
Liliaceae		
<i>Arum maculatum</i>	Lily Family Lords-and-Ladies	Hudes Hope Beck
<i>Crocsmia x crocosmiiflora</i>	Montbretia	Middleton-in-Teesdale
<i>Hyacinthoides non-scripta</i>	Bluebell	frequent
<i>Lillium pyrenaicum</i>	Pyrenean Lily	Middleton-in-Teesdale

Scientific Name	Common Name	Location
<i>Narcissus agg</i>	a Daffodil	Hanging Shaw
<i>Narthecium ossifragum</i>	Bog Asphodel	nr High Force
<i>Polygonatum x hybridum</i>	Garden Solomon's -seal	Middleton-in-Teesdale
Orchidaceae		
Orchid Family		
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	frequent
<i>Dactylorhiza incarnata ssp incarnata</i>	Early Marsh-orchid	Widdybank Farm, Cetry Bank
<i>Dactylorhiza maculata ssp ericetorum</i>	Heath Spotted-orchid	frequent
<i>Dactylorhiza purpurella</i>	Northern Marsh-orchid	frequent
<i>Dactylorhiza x venusta</i>	Hybrid Orchid D fuschii x purpurella	frequent
<i>Gymnadenia borealis</i>	Heath Fragrant Orchid	upstream from Wynch Bridge, Bowlees Beck
<i>Gymnadenia conopsea</i>	Fragrant Orchid	Bowlees Beck
<i>Listera ovata</i>	Common Twayblade	Cronkley Fell, Bowlees Quarry
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	Bowlees Beck
Poaceae		
Grass Family		
<i>Alopecurus pratensis</i>	Meadow foxtail	occasional
<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	frequent
<i>Arrhenatherum elatius</i>	False Oat-grass	occasional
<i>Agrostis stolonifera</i>	Creeping Bent	occasional
<i>Avenula pratensis</i>	Meadow Oat Grass	Cronkley Fell, Widdybnk Farm
<i>Brachypodium sylvaticum</i>	False Brome	nr High Force
<i>Briza media</i>	Quaking Grass	occasional
<i>Bromus hordeaceus</i>	Soft-brome	occasional
<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	occasional
<i>Deschampsia flexuosa</i>	Wavy Hair-grass	occasional
<i>Festuca rubra</i>	Red Fescue	frequent
<i>Festuca ovina</i>	Sheep's Fescue	occasional
<i>Glyceria fluitans</i>	Floating Sweet-grass	nr Cronkly Bridge
<i>Holcus lanata</i>	Yorkshire Fog	frequent
<i>Lolium perenne</i>	Perennial Rye-grass	occasional
<i>Melica uniflora</i>	Wood Melick	High Force
<i>Millium effusum</i>	Wood Millet	Bowlees Beck
<i>Molinia caerulea</i>	Purple Moor-grass	nr High Force
<i>Nardus stricta</i>	Mat-grass	frequent
<i>Phalaris arundinaceae</i>	Reed Canary-grass	downstream from Holwicck Bridge
<i>Poa annua</i>	Red Fescue	common
<i>Poa humilis</i>	Spreading Meadow-grass	on walls at Widdybank Farm and Bowlees
<i>Sesleria caerulea</i>	Blue Moor-grass	frequent
Mosses, Lichens and Liverworts		
<i>Conocephalum conicum</i>	Great Scented Liverwort	Gibson's Cave
<i>Marchantia polymorpha</i>	Umbrella Liverwort - female	Middleton-in-Teesdale
<i>Marchantia polymorpha</i>	Umbrella Liverwort - male	Holwich Head Bridge
<i>Rhizomnium punctata</i>	Dotted Thyme Moss	upstream from Wynch Bridge
<i>Tortula muralis</i>	Wall Screw-moss	Middleton-in-Teesdale
<i>Umbilicaria torrefacta</i>	Navel Lichen	Cronkley Fell

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

	Common name	Scientific name	June			
			21	22	23	24
1	Black Grouse	<i>Lyrurus tetrix</i>			9	
2	Red Grouse	<i>Lagopus lagopus</i>		✓		
3	Common Pheasant	<i>Phasianus colchicus</i>	✓	✓	✓	
4	Mallard	<i>Anas platyrhynchos</i>		✓		✓
5	Eurasian Oystercatcher	<i>Haematopus ostralegus</i>	✓	✓	✓	
6	Northern Lapwing	<i>Vanellus vanellus</i>	✓	✓	✓	
7	European Golden Plover	<i>Pluvialis apricaria</i>		✓		
8	Common Snipe	<i>Gallinago gallinago</i>		✓	✓	
9	Eurasian Curlew	<i>Numenius arquata</i>		✓	✓	
10	Common Redshank	<i>Tringa totanus</i>		✓		
11	Common Sandpiper	<i>Actitis hypoleucos</i>	✓		✓	
12	Black-headed Gull	<i>Chroicocephalus ridibundus</i>	✓	✓	✓	✓
13	Common Wood Pigeon	<i>Columba palumbus</i>	✓		✓	
14	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	✓	✓	✓	
15	Common Swift	<i>Apus apus</i>	✓			
16	Eurasian Jay	<i>Garrulus glandarius</i>			✓	
17	Western Jackdaw	<i>Coloeus monedula</i>	✓	H	✓	
18	Carrion Crow	<i>Corvus corone</i>	✓	✓	✓	✓
19	Great Tit	<i>Parus major</i>	✓		✓	
20	Eurasian Blue Tit	<i>Cyanistes caeruleus</i>			✓	
21	Eurasian Skylark	<i>Alauda arvensis</i>		✓		
22	Sand Martin	<i>Riparia riparia</i>		✓		
23	Barn Swallow	<i>Hirundo rustica</i>	✓	✓	✓	
24	Common House Martin	<i>Delichon urbicum</i>		✓	✓	
25	Willow Warbler	<i>Phylloscopus trochilus</i>	H			
26	Eurasian Blackcap	<i>Sylvia atricapilla</i>	✓		H	
27	Eurasian Wren	<i>Troglodytes troglodytes</i>			✓	✓
28	Common Starling	<i>Sturnus vulgaris</i>	✓	✓	✓	
29	Common Blackbird	<i>Turdus merula</i>	✓	✓	✓	✓
30	Song Thrush	<i>Turdus philomelos</i>	✓			✓
31	European Robin	<i>Erithacus rubecula</i>	✓		✓	
32	Common Redstart	<i>Phoenicurus phoenicurus</i>	✓		✓	✓
33	Northern Wheatear	<i>Oenanthe oenanthe</i>		✓		
34	Eurasian Nuthatch	<i>Sitta europaea</i>				✓
35	House Sparrow	<i>Passer domesticus</i>	✓	✓	✓	
36	Grey Wagtail	<i>Motacilla cinerea</i>	✓			
37	Pied Wagtail	<i>Motacilla alba yarrellii</i>	✓	✓	✓	✓
38	Meadow Pipit	<i>Anthus pratensis</i>	✓	✓		
39	Common Chaffinch	<i>Fringilla coelebs</i>	✓		✓	✓
40	European Goldfinch	<i>Carduelis carduelis</i>	✓		✓	
41	Common Redpoll	<i>Carduelis flammea</i>		✓		

Butterflies

1	Small White	<i>Pieris rapae</i>			✓	
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Other Invertebrates

1	Black Slug	<i>Arion ater</i>		✓		
2	Springtail	<i>Collembola</i> sp			✓	

	Common name	Scientific name	June			
			21	22	23	24

Reptiles & Amphibians

1	Common Lizard	<i>Zootoca vivipara</i>	✓			
2	Common Frog	<i>Rana temporaria</i>	tadpoles	✓		

Mammals

1	Rabbit	<i>Oryctolagus cuniculus</i>	✓		✓	✓
2	Field Vole	<i>Microtus agrestis</i>		✓		