Wildflowers of Upper Teesdale

Naturetrek Tour Report

28th June - 1st July 2021



Cauldron Snout

Mountain Avens





Mountain Saxifrage

Hoary Whitlowgrass

Report by Steve Gater Images by Steve Gater and Dave Pearson



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Summary

The Upper Teesdale assemblage of rare and noteworthy plants makes this dale one of the top five botanical hotspots in Britain and Ireland. John Ray, an early and famous visitor in 1677, recorded Shrubby Cinquefoil (*Potentilla fruiticosa*) for the first time. This, and many other special species were also identified by our more modern visitors over an all-too-short four packed days in the field. The weather was exceptionally kind, the landscape and wildlife were amazing, and the company was very keen, friendly and supportive. An excellent week was enjoyed by all.

Day 1

Monday 28th June

Ten clients assembled at Teesdale Hotel in the heart of the small village of Middleton in Teesdale and met Steve who ferried everyone up the dale to Bowlees. Our vehicle hire company had stafffing problems with Covid, delaying Richard's arrival. But we set off for our first venture, immediately passing Good King Henry (*Chenopodium bonus-henricus*) in flower, with Biting Stonecrop (*Sedum acer*) on the dry stone walls and Glaucous Dog-rose (*Rosa caesia* subsp. *vosagiaca*) alongside.

Over the road, our first hay meadow was resplendent in yellow flowers, three species of Buttercup, Bulbous (Ranunculus bulbosus), Meadow (R. acris) and Creeping (R. repens) and several members of the Daisy family. After a squeeze through two ice-age erratic boulders, we came to a wooded section with Male-fern (Dryopteris filix-mas), Lady-fern (Athyrium filix-femina), Broad Buckler-fern (Dryoperteris dilitata) and typical woodland plants such as Dog's Mercury (Mercuralis perennis), Ramsons (Allium ursinum) and Bluebell (Hyacinthoides non-scripta). Our first glimpse of the Great Whin Sill, magma extruded 295MYA that solidified into very hard dolerite rock, was at Low Force waterfall, picturesque in the sunshine. Ashy Mining Bees were disappearing into holes in the sand and Nomad Bees were on the wing. We spotted a small Shrubby Cinquefoil (Potentilla fruiticosa) on the edge of the rock, the first species of the celebrated 'Teesdale Assemblage' that we had come to see. Sea Plantain (Plantago maritima) was alongside, miles away from its maritime cousins but, nevertheless, well placed in this habitat.

Over the Tees by way of Wynch Bridge, we found a stand of Aspen (*Populus tremula*), a few flowering Common Cow-wheat (*Melampyrum pratense*) plants, and much Bracken (*Pteridium aquilinum*). Bird Cherry (*Prunus padus*) branches were covered in woolly strands of Bird Cherry Ermine moth, several Chimney Sweeper moths were flying over Pignut (*Conopodium majus*) which was in flower and in fruit, grass moths, and Large White and Red Admiral butterflies were seen. Heading south along the Pennine Way led us along the River Tees, at a slow pace, there was so much to see. It wasn't long before we found orchids - Common Spotted-orchid (*Dactylorhiza fuchsii*), Northern Marsh-orchid (*D. purpurella*) that had just 'gone over', Fragrant Orchid (*Gymnadenia conopsea agg.*) opening up and another Upper Teesdale speciality, Alpine Bistort (*Persicaria vivipara*) in flower. Once we had seen one of these most attractive plants, we saw quite a few more. Saw-wort (*Serrulata tinctoria*) was in bud, Pale Sedge (*Carex pallescens*) was found, while Scaly Male-fern (*Dryopteris affinis*) and Common Polypody (*Polypodium vulgare*) were in the shady areas. Wood Crane's-bill (*Geranium sylvaticum*) and Meadow Crane's-bill (*G. pratense*) were in flower so we could compare them. Sweet Cicely (*Myrrhis odorata*) was smelling strongly of aniseed and fruiting, the buds of Melancholy Thistle (*Cirsium heterophyllum*) were opening to show their spectacular purple flowers, and the more delicate flowers of Fairy Flax (*Linum catharticum*) were also admired. The Bedstraw family was

represented by Crosswort (*Cruciata laevipes*), Lady's Bedstraw (*Galium verum*), Cleavers (*Galium aparine*) and Northern Bedstraw (*Galium boreale*), all very attractive in the sunshine.

Noisy Oystercatchers flew across the fields, and we enjoyed great views of Spotted Flycatcher on birch treetops and Common Sandpiper on the river. A Red Kite had been seen earlier, an uncommon sighting in the dale. Siskin, Goldfinch, Chaffinch and Great Spotted Woodpecker were seen later.

There is much to learn about the dale through its fascinating geology and geomorphology. Crossing over the Tees at Scoberry Bridge led us to a shelf of Cockleshell limestone on the north side of the river, dotted with fossils that included *Gigantoproductus* (an extinct brachiopod), some 330 million years old. The erractic boulders we had passed earlier were not the only evidence of ice impact on the landscape. We noted the long, sausage-like structure, an esker, running alongside the Tees and several dumpling-like drumlins in the fields at Holwick. The columnar blocks of dolerite stood as mighty cliffs at the top end of Holwick, Holwick Scars, sporting Rock Whitebeam (*Sorbus rupicola*) on the edges.

By now it was time to return to our transport and head back to our hotel for a most enjoyable dinner and first checklist. We were off to a great start.

Day 2

Tuesday 29th June

A full English breakfast was much appreciated before we drove a short distance to Langdon Beck, past the hotel to park at the private road to Widdybank Farm, Natural England's base in the largest NNR, Moor House-Upper Teesdale. A walk along the winding metalled road brought us to a meadow where we searched for, and found, Grass of Parnassus (*Parnassia palustris*) – too early for flowers but leaves allowed for vegetative identification. Tormentil (*Potentilla erecta*), Lousewort (*Pedicularis sylvatica*) and Cat's-ear (*Hypochaeris radicata*) were seen. Sedges included Glaucous Sedge (*Carex flacca*), Carnation Sedge (*C. panicea*), Star Sedge (*C. echinata*) and False Sedge (*C. simpliciuscula*).

After edging our way around some docile Belted Galloway cattle (some 40 are kept here), we came to a banked meadow that was awash with colour – flowers of Eyebrights (*Euphrasia* spp.), Daisy family such as Sneezewort (*Achillea ptarmica*) and Hawkweed species. Close searching on our knees brought the delight of Scottish Asphodel (*Tofeldia pusilla*) in flower, Twayblade (*Neottia ovata*), Alpine Bistort (*Persicaria vivipara*), the delicate Flea Sedge (*Carex pulicaris*) and Hair Sedge (*C. capillaris*). Other sedges included Hairy Sedge (*C. hirta*), Pill Sedge (*C. pilulifera*), and Dioecious Sedge (*C. dioica*). Variegated Horsetail (*Equisetum variegatum*), Lesser Clubmoss (*Selaginella selaginoides*) and Marsh Arrowgrass (*Triglochin palustris*) were good finds. A rare Northern Hawk's-beard (*Crepis mollis*) was claimed, while some Butterwort (*Pinguicula vulgaris*) plants were still showing their small blue flower on a slender stalk. Common Lousewort (*Pedicularis sylvatica*) and Marsh Lousewort (*P. palustris*) allowed for comparisons. Marsh Valerian (*Valeriana palustris*), Heath Speedwell (*Veronica officinalis*) and many different grasses, Yellow Oat-grass (*Tricetum flavescens*) being much admired, were other components of at least 100 species making up this meadow vegetation.

And there was even more to see at our next stop, Cetry Bank. This is a relatively short crescent of glacial till, towering over the shallow River Tees, with base-rich flushes supporting more wonderful plants. Purple flowering

Alpine Bartsia (Bartsia alpina) was frequent along this bank, contrasting with the equally common yellow flowers of Common Rock-rose (Helianthemum nummularium) and Yellow Saxifrage (Saxifraga aizoides). Harebell (Campanula rotundifolia), a few Bird's-eye Primrose (Primula farinosa) plants still in flower and Burnet Saxifrage (Pimpinella saxifraga) added variety. Long-stalked Yellow Sedge (Carex lepidocarpa), Carnation Sedge (C. panicea), Common Sedge (C. nigra) and Star Sedge (C. echinata) prospered. What a delightful spot to enjoy our lunch in warm sunshine.

On our way back to Widdybank Farm we identified Large Red Damselfly, Golden-ringed Dragonfly, saw Common Frog, Rabbit, many more Chimney Sweeper moths, and Common Blue and Small Heath butterflies. Dipper, Grey and White Wagtail and Common Sandpiper were on the rocks, Skylark singing in the air, and Meadow Pipits flitting around the fields.

At this stage we divided into two parties, one to take a more adventurous route along the Pennine way and a scramble up Cauldron Snout, the other a long, but easier walk along the edge of Cow Green Reservoir. It resulted in many more finds. A female Ring Ouzel took the top prize, heard and seen. Red Grouse, Golden Plover, Curlew, Kestrel, Stonechat and several Wheatear extended the bird list.

Widdybank Fell, the lower part now submerged by the reservoir, has been extensively researched and is currently the focus of intensive mapping of its flora. We saw a large expanse of False Sedge (*Carex simpliciuscula*), low, unassuming and with a few plants in flower. Round-leaved Sundew (*Drosera rotundifolia*) was in bud, the larger leaves of Bog Asphodel (*Narthecium ossifragum*), also in bud, were compared with the smaller Scottish Asphodel. Three violets were found – Common Dog-violet (*Viola riviniana*) and the rarer Teesdale Violet (*V. rupestris*) and the hybrid between the two (*V. x burnatii*) – the latter two species from vegetative identification. A tiny fern, Moonwort (*Botrichium lunaria*), was spotted nearby. Mountain Pansy (*Viola lutea*) was frequent, as were the faded inflorescences of Blue Moor-grass (*Sesleria caerulea*). Crested Hair-grass (*Koeleria macrantha*), Mat Grass (*Nardus stricta*) and Viviparous Sheep's Fescue (*Festuca vivipara*), the latter found at the top of Cauldron Snout, were notable grasses.

We ended a long day with a long list and a satisfying meal, including the choice Ploughman's lunch as a starter, and refreshments at out hotel.

Day 3

Wednesday 30th June

Up early to visit the Black Grouse Lek at Langdon Beck – well, that was the plan. It was dull as we set off and as we steadily climbed up the dale we drove into low-lying cloud, arriving at our viewing spot in thick mist. When optimism for a clearing of the impenetrable gloom faded, we switched our hopes to the fields of Harwood and were soon cheered by a Black Grouse in bright summer plumage striding amongst the Soft Rush (*Juncus effusus*). Oystercatcher, Snipe, Curlew and Lapwing added to the joy. And a Barn Owl was later spotted on a post as we drove back for breakfast.

But with time to spare, we first headed up this small and remote valley to look for Globeflower. We stopped to take photographs of brightly coloured Hybrid Monkeyflower (*Erythranthe*, formerly *Mimulus*, x robertsii) growing along the stream edge, with plenty of Bottle Sedge (*Carex rostrata*) and Marsh Marigold (*Caltha palustris*). As we then climbed a well vegetated meadow, we found lots of Lesser Butterfly-orchid (*Platanthera bifolia*) new into

flower, Bird's-eye Primrose in fruit, more Lousewort and Tormentil. The path quickly took us to a promontory where the early morning views of colourful upland hay meadows were stunning. As were the sightings of Globeflower (*Trollius europeus*), clusters of plants against the grey drystone walls, standing proudly over the other Buttercup species.

Another full breakfast boosted our energy levels for a long day on Cronkley Fell, an eight-mile circuit with c500 metres to climb and some rocky stretches of path to navigate. Some decided to enjoy a less strenuous day on an equally satisfying circuit lower in the dale, taking tea at Langdon Beck Hotel and viewing the impressive geology room there. Before splitting up we enjoyed the rich riverside meadow near Cronkley Farm, with Flat Sedge (Blysmus compressus), Small Scabious (Scabiosa columbaria), Fairy Flax (Linum cathartica), Common Eyebright (Euphrasia nemorosa), Quaking Grass (Briza media), Harebell (Campanula rotundifolia), Common Milkwort (Polygala vulgaris) and Yellow Rattle (Rhinanthus minor). Two-spot Ladybird and Common Hawker were seen.

Grasses noted along the farm road included Soft Brome (Bromus hordeaceus), Creeping Soft-grass (Holcus mollis), Meadow Foxtail (Alopecurus pratensis), and more Yellow Oat-grass. Behind the farm, in amongst the dolerite rocks, we discovered ferns – Beech Fern (Phegopteris connectilis), Mountain Male-fern (Dryopteris oreades), Hard-fern (Blechnum spicant) and Scaly Male-fern (Dryopteris affinis). The wet pasture was full of various Sphagnum species, Bog Stitchwort (Stellaria alsine) was identified, but it was not wet enough and sure enough, we found Tarn Dub dry, so no aquatic species to look for, except Bog Pondweed (Potamogeton polygonifolius) in ditches. However, the effort was rewarded by finding Parsley Fern (Cryptogramma crispa) between the scree rocks and diminutive Early Hair-grass (Aira praecox) on one of these.

Lunch had been well-earned and was followed by a further push upwards to a series of exclosures on the isolated top of the fell. The sun was shining and it was warm – an unusual experience at this remote venue. And with a slight breeze to keep off any midges, it meant that we enjoyed our plants in comfort. The small white, star-like flowers of Spring Sandwort (*Minuartia verna*) growing in patches of sugar limestone quickly caught the eye. So too did the yellow rock-rose flowers – the larger ones of Common Rock-rose (*Helianthemum nummularium*) adjacent to the smaller ones of the rarer Hoary Rockrose (*Helianthemum oelandicum* subsp. *levigatum*). Spring Gentian (*Gentiana verna*) is found here – flowering was well over, but the small rosettes of leaves were conspicuous once we got our eye in.

Small Heath butterflies were common, but a brightly coloured Wood Tiger moth was most unexpected. A tiny rosette on dull grey/green leaves in the sugar limestone was seemingly

less impressive, but when other plants were found with their white flowers, we were very impressed with our find of the rare annual, Hoary Whitlowgrass (*Draba incana*) – not a grass but a member of the Cabbage family. We then moved on to find yet another member of the Teesdale assemblage, again found first just in leaf and then specimens in flower and looking very pretty – Mountain Avens (*Dryas octopetala*). We had earlier seen Water Avens (*Geum rivale*) and its hybrid and some similarities in flower shape were evident. Common Twayblade (*Neottia ovata*) was coming into flower and the characteristic leaves of Dark Red Helleborine (*Epipactis atrorubens*) enabled its identification, but it was some way off flowering.

With a long walk left our botanising was over for the day, even though we were keen to find more plants. Black-headed Gulls were gathered on the fell top. Our path took us down to the Tees and along its banks. We enjoyed

views of Wheatear families, Stonechat, Kestrel, Common Sandpiper, Oystercatcher with chicks, Common Ringed Plover and Red Grouse.

Another long day had also proved to be most enjoyable, as was dinner with ice cream all round.

Day 4

Thursday 1st July

An early breakfast gave a little more time for us to enjoy a final walk along the banks of the River Tees, following the Pennine Way to the top of High Force and what a view we had there! The river edge is awash with flora, superb bushes of Shrubby Cinquefoil, good numbers of Alpine Bistort, several Lady's-mantle species – Alchemilla glabra, A. filicaulis subsp. vestita, A. wichurae and A. xanthochlora. Devil's-bit Scabious (Succisa pratensis) was almost in flower, Yarrow (Achillea millefolium) was just in flower and Cow Parsley (Anthriscus sylvestris) had 'gone over' into fruit. Shady Horsetail (Equisetum pratense) and Wood Horsetail (E. sylvaticum) grow side-by-side here, allowing for an easy comparison and confirmation of identification. Several Forget-me-not species were recorded – Field (Myosotis arvensis), Water (M. scorpiodes) and Wood (M. sylvatica). We passed a large and impressive stand of Lesser Pond Sedge (Carex acutiformis).

The top of High Force was well covered in Common Juniper (Juniperus communis), much suffering from infection of the fungus-like *Phytophthora austrocedri*. In amongst the Bracken (*Pteridium aquilinum*) we came across Lemonscented Fern (*Oreopteris limbosperma*), its smell true to its name and with fronds narrowing at each end. A very obliging Common Lizard was sunning itself on a wooden gatepost, Small White, Common Blue and Red Admiral butterflies plus many Chimney Sweeper moths were on the wing.

Back-tracking took us over the Tees and through two wooded walks where Sweet Woodruff (*Galium odorata*), Sanicle (*Sanicula europaea*), Wall Lettuce (*Mycelis muralis*) were in flower, Common Figwort (*Scrophularia nodosa*) in bud and more ferns were seen – Wall Rue (*Asplenium ruta-muralis*), Hart's-tongue (*Asplenium scolopendrium*), Brittle Baldder-fern (*Cystopteris fragilis*) and Beech Fern (*Phegopteris connectilis*). Large stands of Scots Pine (*Pinus sylvestris*) dominated, and several elderly Yew trees (*Taxus baccata*) grew next to the path. But now our time was up. It was fitting to end with superb views of High Force from below, the massive slab of Great Whin Sill resisting the water while softer limestone below had collapsed to form the tall waterfall. We headed back to Middleton-in-Teesdale to check out of our hotel and say our farewells, some heading back home and others extending their stay.

Our introduction to the wonders of Upper Teesdale had been blessed with great weather and we departed with great memories.

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Checklist

Plants

Scientific Name Common Name Location

PTERIDOPHYTES
Lycophytes

Selaginellaceae

Selaginella selaginoides

Eusporangiate Ferns Ophioglossacae

Botrychium Iunaria

Calamophytes

Equisetaceae

Equisetum arvense
Equisetum palustre
Equisetum pratense
Equisetum sylvaticum
Equisetum variegatum

Leptosporangiate Ferns

Aspleniaceae

Aspenium ruta-muralis Asplenium scolopendrium Asplenium trichomanes ssp quadrivalens

Asplenium viride

Blechnaceae

FERNS & ALLIES

Clubmosses & Quillworts

Lesser Clubmoss Family

Lesser Clubmoss

Adder's-tongues & Moonworts Adder's-tongue Fern Family

Moonwort

Horsetails

Horsetail Family

Field Horsetail Occasional

Marsh Horsetail Widdybank Pasture
Shady Horsetail Tees

Wood Horsetail Tees
Variegated Horsetail Widdybank P

ted Horsetail Widdybank Pasture

Widdybank Fell

Widdybank Fell

True Ferns

Spleenwort Family

Wall Rue High Force
Hart's-tongue High Force
Maidenhair Spleenwort Tees
Green Spleenwort Cronkley Pasture

Hard-fern Family

Blechnum spicant Hard-fern Cauldron Snout

Dennstaeditiaceae Bracken Family

Pteridium aquilinum Bracken Frequent

Dryopteridaceae Buckler-fern Family

Dryopteris affinisScaly Male-fernTees, CronkleyDryoptereis dilatataBroad Buckler-fernFrequentDryopteris filix-masMale-fernFrequentDryopteris oreadesMountain Male-fernCronkley

Polypodiaceae Polypody Family

Polypodium vulgare Common Polypody Tees, Cronkley

Pteridaceae Ribbon Fern Family

Cryptogramma crispa Parsley Fern Tarn Dub

Thelypteridaceae Marsh Fern Family

Oreopteris limbospermaLemon-scented FernHigh ForcePhegopteris connectilisBeech FernHigh Force

Woodsiaceae Lady-fern Family

Athyrium felix-feminaLady-fernLow ForceCystopteris fragilisBrittle Bladder-fernHigh Force

PINACEAE CONIFERS

Cupressaceae Juniper Family

Juniperus communis Common Juniper High Force

Pinaceae Pine Family

Pinus sylvestris Scot's Pine High Force

Taxaceae Yew Family

Taxus baccata Yew High Force

ANGIOSPERMS FLOWERING PLANTS
Eu-dicots True Dicotyledons

Amaranthaceae Goosefoot Family

Atriplex prostrataSpear-leaved OrachevergesChenopodium bonus-henricusGood King HenryBowlees

Apiaceae Carrot Family

Aegopodium podagraria Ground Elder High Force Angelica sylvestris Angelica Tees Anthriscus sylvestris Cow Parsley Frequent **Pignut** Conopodium majus Frequent Hogweed Heracleum sphondilium Frequent **Sweet Cicely** Myrrhis odorata Tees Sanicle Sanicula europaea High Force

Araliacieae Ivy Family

Hedera helix Ivy Occasional

Asteraceae Daisy Family

Achillea millefoliumYarrowOccasionalAchillea ptarmicaSneezewortWiddybank Pasture

Tees

Tees

verges

verges

verges

verges

verges

verges

Antennaria dioica Mountain Everlasting Cronkley Fell Arctium minus Lesser Burdock Bellis perennis Daisy Frequent Carduus crispus Welted Thistle Melancholy Thistle Cirsium heterophyllum Tees, verges Creeping Thistle Cirsium arvense **Pastures** Marsh Thistle Cirsium palustre **Pastures** Spear Thistle Cirsium vulgare **Pastures** Northern Hawk's-beard Crepis mollis Widdybank Pasture Marsh Hawk's-beard Crepis paludosa Widdybank Pasture Hawkweed Hieracium agg Widdybank Pasture Cat's-ear Hypochaeris radicata Widdybank Pasture **Nipplewort** Lapsana communis Rough Hawkbit Widdybank Pasture Leontodon hispidus Oxeye Daisy Leucanthemum vulgare Occasional Pineappleweed Matricaria discoides Middleton in Teesdale Wall Lettuce Mvcelis muralis High Force Butterbur Petasites hybridus Mouse-ear Hawkweed Pilosella officinarum Cronkley Fell Marsh Ragwort Senecio aquatilis Widdybank Pasture Hoary Ragwort Senecio erucifolius Ragwort Senecio jacobaea Groundsel Senecio vulgaris Middleton in Teesdale Serratula tinctoria Saw-wort Low Force Goldenrod Solidago virgaurea Low Force Prickly Sow-thistle Sonchus asper **Pastures** Smooth Sow-thistle Sonchus oleraceus **Pastures** Dandelion group Taraxacun agg Frequent taraqxacum nordstedii a dandelion Cronkley Fell Goat's-beard Tragopogon pratensis

Betulaceae

Alnus glutinosa Betula pubescens Corylus avellana

Tussilago farfara

Boraginaceae

Myosotis arvensis Myosotis discolor Myosotis laxa Myosotis scorpiodes Myosotis secunda Myosotis sylvatica Symphytum x uplandicum

Brassicaceae

Alliaria petiolata Arabidopsis thaliana Cardamine flexuosa Cardamine hirsuta Cardamine pratensis Capsella bursa-pastoris Cochlearia pyrenaica subsp. alpina Draba incana

Birch Family

Coltsfoot

Alder Tees, verges Downy Birch Tees, verges Hazel Tees, verges

Borage Family

Field Forget-me-not **Pastures** Changing Froget-me-not Tees, verges Tufted Forget-me-not **Pastures** Water Froget-me-not **Pastures** Creeping Forget-me-not **Pastures** Wood Forget-me-not High Force Russian Comfrey verges

Cabbage Family

Garlic Mustard Tees, verges **Thale Cress** verges Wavy Bitter-cress Middleton in Teesdale Hairy Bitter-cress Middleton in Teesdale Cuckooflower **Pastures** Shepheard's Purse Middleton in Teesdale Pyrenean Scurvygrass Tees Hoary Whitlowgrass Cronkley Fell

Pastures

Hesperis matronalis Dame's-violet Tees

Campanulaceae Bellflower Family

Campanula rotundifolia Harebell Tees

Caprifoliacae Honeysuckle Family

Lonicera periclymenum Honeysuckle verges

Caryophyllaceae Pink Family

Arenaria serpyllifolia Thyme-leaved Sandwort

Cerastium fontanum Common Mouse-ear

Minuartia verna Spring Sandwort

Minuartia vernaSpring SandwortCronkley FellSagina procumbensProcumbent PearlwortTeesSilene dioicaRed CampionTees, vergesSilene flos-cuculiRagged RobinPastures

Stellaria alsineBog StichwortCronkley FellStellaria gramineaLesser StichwortPasturesStellaria hollosteaGreater StichwortPasturesStellaria mediaCommon ChickweedPastures

Cistaceae Rock-rose Family

Helianthemum numularium Common Rock-rose occasional

Helianthemum oelandicum subsp. Hoary Rock-rose

levigatum Cronkley Fell

Convolvulaceae Bindweed Family

Convolvulus arvensis Field Bindweed verges

Cornaceae Dogwood family

Cornus sanguineus Dogwood verges

Crassulaceae Stonecrop Family

Sedum acerBiting stonecropBowleesSedum albumWhite StonecropBowleesSedum spuriumCaucasian-stonecropBowleesSenecio tectorumHouse-leekBowlees

Dipsacaceae Teasel Family

Succisa pratensis Devil's-bit Scabious Tees

Droseraceae Sundew Family

Drosera rotundifolia Round-leaved Sundew Widdybank Pasture

Ericaceae Heather Family

Calluna vulgarisHeathermoorland topsEmpetrum nigrum subsp. nigrumCrowberrymoorland topsErica cinereaBell Heathermoorland tops

Erica tetralixCross-leaved Heathmoorland topsVaccinium myrtillusBilberrymoorland topsVaccinium vitis-idaeaCowberrymoorland tops

Euphorbiaceae Spurge Family

Mercurialis perennis Dog's Mercury Low Force

Fabaceae Pea Family

Trifolium dubium Lesser Trefoil verges Trifolium medium Zig-zag Clover **Pastures Red Clover** Trifolium pratense **Pastures** White Clover **Pastures** Trifolium repens Bitter Vetch Lathyrus linifolius Tees, verges Meadow Vetchling Lathyrus pratensis Tees, verges Lotus corniculatus Brid's-foot-trefoil **Pastures Black Medick** Medicago lupulina Tees, verges Vicia sepium **Bush Vetch** Tees, verges Gorse Ulex europaea High Force

Beech Family Fagaceae

Beech Fagus sylvatica Tees, verges

Gentianaceae **Gentian Family**

Spring Gentian Gentiana verna Cronkley Fell

Geraniaceae Crane's-bill Family

Meadow Crane's-bill Geranium pratense Tees, verges Geranium robertianum Herb Robert Tees, verges Wood Crane's-bill Geranium sylvaticum Tees, verges

Grossulariaceae **Gooseberry Family**

Ribes uva-crispa Goosberry Tees

Hypericaceae St John's-wort Family

Hypericum pulchrum Slender St John's-wort Tees Hypericum tetrapterum Square-stalked St John's-wort Tees

Dead-nettle Family Lamiaceae

Common Bugle Ajuga reptans Tees White Dead-nettle Lamium album Tees, verges Selfheal Prunella vulgaris Tees, verges Stachys sylvatica Hedge Woundwort Low Force Teucrium scorodonia Wood Sage High Force Thymus polytrichus

Wild Thyme Tees

Linaceae Flax Family

Linum catharticum Purging or Fairy Flax occasional

Lentibulariaceae **Butterwort Family**

Pinguicula vulgaris Common Butterwort **Pastures**

Malvaceae **Mallow Family**

Tilia x europaea Hybrid Lime = T. platyphyllos x T. cordata Tees, verges

Oleaceae **Olive Family**

Fraxinus excelsior Ash Tees, verges

Onagraceae Willowherb Family

Rosebay Willowherb Chamerion angustifolium Tees, verges Circaea lutetiana Enchanter's-nightshade High Force New Zealand Willowherb Epilobium brunnescens Tees, verges Great Willowherb Epilobium hirsutum Tees, verges

Epilobium montanum

Broad-leaved Willowherb

Tees, verges

Orobanchaceae

Bartsia alpina

Euphrasia artica ssubsp. borealis

Euphrasia scottica Euphrasia sp.

Euphrasia nemorosa

Pedicularis palustris Pedicularis sylvatica

Rhinanthus minor

Oxalidaceae

Oxalis acetosella

Papaveraceae

Mecanopsis cambrica

Parnassiaceae

Parnassia palustris

Phrymaceae

Erythranthe (Mimulus) x robertsii

Plantaginaceae

Plantago lanecolata Plantago major Plantago maritima

Polygalaceae

Polygalla serpyllifolia Polygalla vulgaris

Polygonaceae

Persicaria vivipara Rumex acetosa Rumex longifolius Rumex obtusifolius

Potamogetonaceae

Potamogeton polygonifolius

Primulaceae

Primula farinosa Primula veris Primula vulgaris Lysimachia nemorum

Ranunculaceae

Aquilegia vulgaris
Anemone nemorosa
Caltha palustris
Ranunculus acris
Ranunculus bulbosus
Ranunculus flammula

Broomrape Family

Alpine Bartsia Widdybank Arctic Eyebright Widdybank Pasture Scottish Eyebright Widdybank Pasture Eyebright occasional Eyebright occasional Marsh Lousewort Widdybank Pasture Lousewort occasional Yellow-rattle frequent

Wood Sorrel Family

Wood-sorrel High Force

Poppy Family

Welsh Poppy Bowlees

Grass-of-Parnassus Family

Grass-of-Parnassus Widdybank Pasture

Monkeyflower Family

Hybrid Monkeyflower Harwood

Plantain Family

Ribwort Plantain freq
Greater Plantain frequent
Sea Plantain Cronkley Fell

Milkwort Family

Heath Milkwort Widdybank Pasture
Common Milkwort occasional

Knotweed Family

Alpine Bistort Tees
Sorrel pastures
Northern Dock Tees, verges
Broad-leaved Dock pastures

Pondweed Family

Bog Pondweed Cronkley Fell

Primrose Family

Bird's-eye Primrose occasional
Cowslip pastures
Primrose pastures
Yellow Pimpernel Tees

Buttercup Family

Columbine Widdybank Farm
Wood Anemone Widdybank Fell, Low Force
Marsh Marigold occasional
Meadow Buttercup freq

Bulbous Buttercup Low Force
Lesser Spearwort pastures

Saxifraga aizoides

Ranunculus repens	Creeping Buttercup	fraguent
Trollius europaeus	Globeflower	frequent
Tromas caropacas	Globellowel	Harwood
Rosaceae	Rose Family	
Alchemilla acutiloba	Starry Lady's-mantle	Tees
Alchemilla filicaulis subsp. vestita	Hairy Lady's-mantle	Tees
Alchemilla glabra	Smooth Lady's-mantle	Tees
Alchemilla vulgaris agg.	Lady's-mantle group	verges
Alchemilla wichurae	Rock Lady's-mantle	Tees
Alchemilla xanthochlora	Pale Lady's-mantle	Tees
Dryas octopetala	Mountain Avens	Cronkley Fell
Filipendula ulmaria	Meadow Sweet	Tees, verges
Fragaria vesca	Wild Strawberry	pastures
Geum rivale	Water Avens	Low Force
Geum urbanum	Wood Avens	Low Force
Geum x intermedium	Water Avens x Wood Avens	Low Force
Potentilla anserina	Silverweed	verges
Potentilla erecta	Tormentil	frequent
Potentilla fruticosa	Shrubby Cinquefoil	Tees
Potentilla reptans	Creeping Cinqufoil	verges
Potentilla sterilis	Barren Strawberry	Low Force
Prunus avium	Wild Cherry	Tees
Prunus padus	Bird Cherry	Tees
Prunus spinosa	Blackthorn	Tees
Rosa caesia subsp. vosagiaca	Glaucous Dog-rose	Bowlees
Rubus fruticosus	Bramble	occasional
Rubus ideaus	Raspberry	Bowlees
Sanguisorba officinalis	Great Burnet	Cronkley Fell
Sorbus aucuparia	Rowan Rock Whitebeam	occasional
Sorbus rupicola	Rock Whitebeam	Holwick Craggs
Rubiaceae	Bedstraw Family	
Cruciata laevipes	Crosswort	occasional
Galium aparine	Cleavers	occasional
Galium boreale	Northern Bedstraw	Tees
Galium odoratum	Sweet Woodruff	High Force
Galium saxatile	Heath Bedstraw	frequent
Galium sterneri	Limestone Bedstraw	Cronkley Fell
Galium verum	Lady's Bedstraw	occasional
Saliciaceae	Willow Family	
Populus tremula	Aspen	Low Force
Salix aurita	Eared Willow	Tees
Salix caprea	Goat Willow	Tees
Salix cinerea	Grey Willow	Tees
Salix phylicifolia	Tea-leaved Willow	Tees
Salix viminalis	Osier	Hanging Shaw
0.1.1	Maple Family	
Sapindaceae	Field Maple	Tees, verges
Acer passidentative	Sycamore	Tees, verges
Acer pseudoplatanus	Cycamore	1 663, VEIGES
Saxifragaceae	Saxifrage Family	
Cavifraga aizaidaa	Vollow Covifrago	Middybank

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Widdybank

Yellow Saxifrage

Scrophulariaceae

Scrophularia nodosa

Figwort Family

Figwort High Force

Ulmaceae

Ulmus glabra

Elm Family Wych Elm

Middleton in Teesdale

Urticaceae

Urtica dioica

Nettle Family
Common Nettle

frequent

Valerianaceae

Valeriana dioica

Valerian Family Marsh Valerian

Widdybank pasture

Veronicaceae

Digitalis purpurea
Veronica beccabunga
Veronica chamaedrys
Veronica montana
Veronica officinalis

Speedwell Family

Foxglove Tees, verges
Brooklime pastures
Germander Speedwell frequent
Wood Speedwell High Force
Heath Speedwell Cronkley Fell

Violaceae

Viola lutea Viola palustris Viola riviniana Viola x burnatii **Violet Family**

Mountain Pansy occasional
Marsh Violet pastures
Common Dog-violet Widdybank
Hybrid Violet (*V. riviniana x* Widdybank

rupestris)

Monocots

Monocotyledons

Amaryllidaceae

Allium ursinum

Wild Garlic High Force

Araceae

Arum maculatum

Arum Family
Lord's and Ladies

Daffodil Family

Low Force

occasional

Tees

Asparagaceae

Cyperaceae

Hyacinthoides non-scripta

Bluebell

Asparagus Family

Lesser Pond Sedge

Green-ribbed Sedge

Sedge Family
Flat sedge

Carex acutiformis Carex binervis Carex capillaris Carex caryophyllea

Blysmus compressus

Carex demissa Cares dioica Carex echinata Carex flacca Carex hirta

Carex hostiana

Carex leporina
Carex nigra
Carex pallescens
Carex panicea
Carex pilulifera

Carex pulicaris

Carex remota

Hair Sedge
Spring Sedge
Long-bracted Yellow-sedge
Dioecious Sedge
Star Sedge
Glaucous Sedge

Glaucous Sedge
Hairy Sedge
Tawny Sedge
Oval Sedge
Common Sedge
Pale Sedge
Carnation Sedge
Pill Sedge
Flea Sedge

Tees
Cronkley Fell
Widdybank
Widdybank
Widdybank
occasional
occasional
Widdybank
Cronkley Fell
Tees
occasional
Cronkley Fell
occasional
Widdybank

Widdybank

Cronkley Fell

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Remote Sedge

Carex rostrata
Carex (Kobresia) simpliciuscula
Carex sylvatica
Eriophorum angustifolium
Eriophorum vaginiatum
Eleocharis quinqueflora
Eleocharis uniglumis
Trichophorum germanicum

Juncaceae

Juncus acutiflorus
Juncus articulatus
Juncus bufonis
Juncus conglomeratus
Juncus effusus
Juncus squarrosus
Luzula campestris
Luzula pilosa
Luzula sylvatica

Juncaginaceae

Triglochin palustris

Liliaceae

Narthecium ossifragum Tofieldia pusilla

Orchidaceae

Dactylorhiza fuchsii Dactylorhiza incarnata ssp incarnata Dactylhoriza maculata ssp ericetorum Dactylorhiza purpurella

Dactylorhiza x venusta Epipactis atrorubens Gymnadenia conopsea Neottia ovata

Platanthera bifolia

Poaceae

Aira praecox
Alopecurus pratensis
Anthoxanthum odoratum
Arrhenatherum elatius
Agrostis capilaris
Agrostis stolonifera
Brachypodium sylvaticum
Briza media
Bromus hordeaceus
Cynosorus cristatus
Dactylis glomerata
Danthonia decumbens
Deschampsia cespitosa
Deschampsia flexuosa

Festuca rubra

Bottle Sedge Harwsood False Sedge Widdybank Wood Sedge Tees Common Cottongrass Cronkley Fell Hare's-tail Cottongrass Cronkley Fell Few-flowered Spike-rush Cronkley Fell One-flowered Spike-rush Cronkley Fell **Deer Grass** Cronkley Fell

Rush Family

Sharp-flowered Rush pastures Jointed Rush pastures Toad Rush Widdybank Compact Rush pastures Soft Rush pastures Heath Rush Cronkley Fell Field Wood-rush pastures Hairy Wood-rush Tees Greater Wood-rush High Force

Arrowgrass Family

Marsh Arrowgrass Widdybank

Lily Family

Bog Asphodel pastures Scottish Asphodel Widdybank

Orchid Family

Common Spotted-orchidTeesEarly Marsh-orchidTeesHeath Spotted-orchidTeesNorthern Marsh-orchidTeesHybrid Orchid (D. fuschii xBowlees

purpurella)

Dark Red HelleborineCronkley FellChalk Fragrant-orchidTeesCommon TwaybladeCronkley FellLesser Butterfly-orchidHarwood

Grass Family

Early hair-grass Tarn Dub Meadow Foxtail frequent **Sweet Vernal Grass** frequent False Oat-grass frequent Common Bent occasional Creeping Bent occasional False Brome Cronkley Farm occasional **Quaking Grass** Cronklev Farm Soft-brome Crested Dog's-tail occasional Cock's-foot frequent **Heath Grass** Cronkley Fell **Tufted Hair-grass** frequent Wavy Hair-grass Cronkley Fell Red Fescue frequent

Sheeps Fescue occasional Festuca ovina Floating Sweet-grass Harwood Glyceria fluitans Yorkshire Fog frequent Holcus lanata occasional Creeping Soft-grass Holcus mollis Crested Hair-grass occasional Koeleria macrantha Lolium perenne Perennial Rye-grass frequent Mountain Melick Cronkley Fell Melica nutans Wood Melick Melica uniflora Low Force Purple Moor-grass Cronkley Fell Molinia cearulea Mat-grass Nardus stricta occasional Reed Canary-grass Phalaris arundinaceea Harwood Annual Meadow-grass Poa annua frequent Smooth Meadow-grass occasional Poa pratensis Rough Meadow-grass Tees Poa trivialis Blue Moor-grass Widdybank Fell Sesleria caerulea Yellow Oat-grass Tees Tricetum flavescens

Birds

			June	- July		
	Common name	Scientific name	28	29	30	1
1	Mallard	Anas platyrhynchos	✓	✓	✓	✓
2	Black Grouse	Lyrurus tetrix			✓	
3	Red Grouse (Willow Ptarmigan)	Lagopus lagopus scotica		✓	✓	
4	Common Pheasant	Phasianus colchicus		✓	√	
5	Eurasian Oystercatcher	Haematopus ostralegus	✓	√	√	√
6	Northern Lapwing	Vanellus vanellus		✓	✓	
7	European Golden Plover	Pluvialis apricaria		✓	√	√
8	Common Ringed Plover	Charadrius hiaticula		√		√
9	Common Snipe	Gallinago gallinago		h	√	√
10	Eurasian Curlew	Numenius arquata		✓	√	√
11	Common Redshank	Tringa totanus			√	√
12	Common Sandpiper	Actitis hypoleucos	✓	✓	√	√
13	Black-headed Gull	Chroicocephalus ridibundus	✓	√	√	√
14	Rock (Feral) Dove	Columba livia 'feral'			√	
15	Stock Dove	Columba oenas			√	√
16	Common Wood Pigeon	Columba palumbus	✓	✓	√	√
17	Eurasian Collared Dove	Streptopelia decaocto	✓			
18	Red Kite	Milvus milvus	✓			
19	Western Barn Owl	Tyto alba			√	
20	Common Swift	Apus apus	✓	✓	✓	
21	Great Spotted Woodpecker	Dendrocopos major	✓			
22	Common Kestrel	Falco tinnunculus		√	√	
23	Western Jackdaw	Coloeus monedula		h	✓	
24	Rook	Corvus frugilegus		✓	✓	✓
25	Carrion Crow	Corvus corone		✓	✓	✓
26	Eurasian Blue Tit	Cyanistes caeruleus	✓		✓	✓
27	Great Tit	Parus major	✓		✓	✓
28	Eurasian Skylark	Alauda arvensis		√	√	✓
29	Barn Swallow	Hirundo rustica			√	√
30	Common House Martin	Delichon urbicum	✓	√	√	√
31	Willow Warbler	Phylloscopus trochilus	✓	h√	√	√
32	Eurasian Wren	Troglodytes troglodytes	✓	√	√	√

			June	June - July		
	Common name	Scientific name	28	29	30	1
33	Common Starling	Sturnus vulgaris	✓	✓		✓
34	Ring Ouzel	Turdus torquatus		✓	✓	
35	Common Blackbird	Turdus merula	✓	✓	✓	✓
36	Song Thrush	Turdus philomelos	✓	✓	✓	✓
37	Mistle Thrush	Turdus viscivorus	✓	✓		
38	Spotted Flycatcher	Muscicapa striata			✓	✓
39	European Robin	Erithacus rubecula			√	✓
40	European Stonechat	Saxicola rubicola		√	√	
41	Northern Wheatear	Oenanthe oenanthe		9+	10+	
42	White-throated Dipper	Cinclus cinclus		✓		✓
43	House Sparrow	Passer domesticus	✓	✓	✓	✓
44	Dunnock	Prunella modularis			✓	
45	Western Yellow Wagtail	Motacilla flava			✓	
46	Grey Wagtail	Motacilla cinerea		√	√	
47	White Wagtail	Motacilla alba		√	✓	
48	Meadow Pipit	Anthus pratensis	✓	√	✓	√
49	Common Chaffinch	Fringilla coelebs	✓		✓	√
50	European Greenfinch	Chloris chloris	✓			
51	European Goldfinch	Carduelis carduelis	✓		√	√
52	Eurasian Siskin	Spinus spinus	✓			
53	Common Reed Bunting	Emberiza schoeniclus			√	

Insects

			June - July			
	Common name	Scientific name	28	29	30	1
Butte	rflies:					
1	Large White	Pieris brassicae	✓		✓	
2	Small White	Pieris rapae		✓	✓	√
3	Common Blue	Polyommatus icarus		✓	✓	✓
4	Red Admiral	Vanessa atalanta	✓	✓	✓	√
5	Small Heath	Ceononympha pamphilus		√	√	
Moth s						
1	Bird Cherry Ermine Moth	Yponomeuta evonymella	√		√	✓
2	Chimney Sweeper Moth	Odezia atrata	✓	✓	✓	✓
3	Common Grass-veneer Moth	Agriphila tristella		√		
4	Wood Tiger Moth	Parasemia plantaginis		√	√	
Other	Invertebrates:					
1	Black Slug	Arion ater				
2	2-spot Ladybird	Adalia bipunctata	✓			
3	7-spot Ladybird	Coccinella septempunctata				√
4	Large Red Damselfly	Pyrrhosoma nymphula		✓	✓	
5	Golden-ringed Dragonfly	Cordulegaster boltonii		√		
6	Common Hawker	Aeshna juncea			✓	
7	White-tailed Bumblebee	Bombus lucorum	✓	✓	✓	

			June - July				
	Common name	Scientific name	28	29	30	1	
8	Buff-tailed Bumblebee	Bombus terrestris			✓	✓	
9	Garden Bumblebee	Bombus hortorum	✓			✓	
10	Common Carder Bee	Bombus pascuorum	✓			✓	

Other

			June - J	June - July			
	Common name	Scientific name	28	29	30	1	
Reptiles & Amphibians:							
1	Common Lizard	Zootoca vivipara				✓	
2	Common Frog	Rana temporaria		√			
Mammals:							
1	Rabbit	Oryctolagus cuniculus	√	√	√	✓	