

A Flora of Sedbergh



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July 2015

WELSH POPPY (*Meconopsis cambrica*)

The Welsh Poppy is, for all its beauty, a pretender - it's neither Welsh, nor a true poppy.

Not exclusive to, nor particularly common in, Wales, it was first formally discovered there by the herbalist Thomas Johnson, and then classified + named by Linnaeus as *Papaver cambrica*.

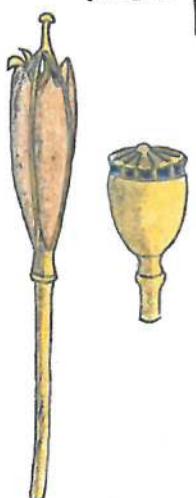
Whilst very common around Sedbergh, it is listed as Nationally Scarce and was not recorded in this region until 1898.

The yellow form is by far the commonest.

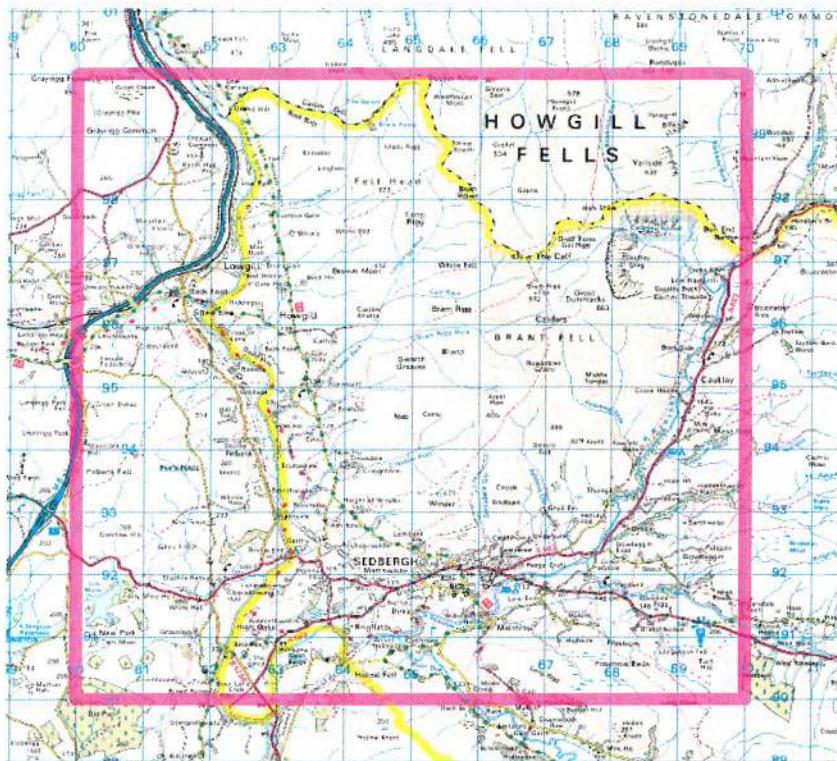


The true Poppies have pepper-pot shaped seed capsules. The Welsh Poppy's is spindle-shaped, with flaps that fold back to release its seeds: it is thus assigned to the genus

Meconopsis - Greek for "looking like a poppy".



INTRODUCTION



The area covered in this catalogue is the Sedbergh National Grid hectad (shown in the detail from the OS map above)

The data for this catalogue have been drawn from Halliday's *A Flora of Cumbria* (1997) to which I have made a few additions as new species have been found or have appeared - these are marked NHB with the year in which they were added.

In all over 700 species have been listed, the overwhelming majority of which are native to Cumbria, but not all. There are nearly 100 species that have over the last few hundred years been introduced as Casuals, Aquatics or Garden Escapes.

I have drawn-up the lists under four separate headings :

1. Wild Flowers
2. Grasses, Sedges, Rushes & Reeds
3. Trees & Shrubs
4. Clubmosses, Ferns & Horsetails

SEDBERGH'S NATIONALLY SCARCE SPECIES

SPECIES	RARITY STATUS	TETRAD SCORE (Maximum 100)
Spignal	NSS	8
Cornflower	NSS	1
Downy Currant	NSS	1
Pale Forget-me-not	NSS	11
Bog Orchid	NSS	1
Bird's-eye Primrose	NSS	5
<i>Euphrasia officinalis</i> subsp. <i>monticola</i>	NSS	1
<i>Euphrasia officinalis</i> subsp. <i>roskoviana</i>	NSS	1
Chickweed Willowherb	NSS	7
Monkshood	NSS	1
Welsh Poppy subsp. <i>roskoviana</i>	NSS	12

A table of the Nationally Scarce Species (NSS) growing within the Sedbergh hectad
The "Tetrad Score" is the number of OS Grid Squares within the Sedbergh Hectad that contain one or more specimen.

Of the 11 "scarce species" listed in the table above **Monkshood** and **Welsh Poppy** are almost certainly garden escapes : the latter was first seen in the area in the 1830s, but it has become so abundant locally that "it is considered to be a 'native'" (Halliday, 1997), so much so that it seems absurd to class it as being a Nationally Scarce Species (NSS).

There are several other "scarce" species that are fairly common to the area: these include **Chickweed Willowherb** and **Spignal**. Chickweed Willowherb is a colourful and conspicuous plant of upland bryophyte-rich spring vegetation which is sparsely but well dispersed over the acidic Howgills. Spignal is very much a plant of the Lune Valley, particularly between Sedbergh and Tebay - so much so that the region is nationally famed for it. It was around Tebay that the herbalist John Gerard first recorded it growing in his *General Historie of Plantes* (1597). Its present status within the locality remains "healthy" - this despite a field of it at Dillicar being completely destroyed in the 1970s to make way for a motorway construction site

The **Pale Forget-me-not** is also a plant of local interest. The first British specimen of this particular species was collected from Cautley Crags (A. Wilson 6 Sept 1892). As a species it is very much restricted to the N of England, where Halliday records it as being "not uncommon in the Fells", and speculates that it may well have been previously overlooked and under-recorded.

Doing less well are the **Bird's-eye Primrose**, the **Bog Orchid** and the **Cornflower**. It is probable that the cornflower has never done well in this area - Handley(1897) records it as "a beauty, but very rare; it grows at Birks." Bird's-eye Primrose on the other hand was described by Handley as being "in all our valleys", and yet a hundred years later Halliday says "it is now very scarce in the Sedbergh area." The most likely reason for its decline is the increased grazing and grassland "improvement." Suffering similarly at the hands of agriculture are the two Eyebright sub-species of **Euphrasia officinalis**. These are both species of unimproved grassland and hay-meadows. Interestingly both subspecies were found within a few yards of each other on the old railway track embankment by Jackdaw Bridge.

Even more sensitive to agriculture is the **Bog Orchid**, the bulbs of which can tolerate virtually no disturbance. As a species it is in rapid national decline. It is now restricted to parts of the New Forest, Purbeck and Cumbria. Of the 1997 Survey's 10 Cumbrian tetrads containing Bog Orchid, 9 of these were in The Lakes. "This is a plant of lowland mires....the pseudobulbs are frequently only half buried in sphagnum ,or bare peat" (Halliday). The plant is so tiny and insignificant that it is easily overlooked and speculates Lang , "has therefore been under-recorded" (*Britain's Orchids* , 2004). This under-recording has probably been increased by its habitat - one that can reward the unwary botanist with sudden immersion. Another rare orchid, although not of NSS status, is the **Small White Orchid**. Again it is disappearing fast as a result of agriculture. In all there are 9 Cumbrian Tetrads (more than any other county) and Sedbergh has 4 of these.

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1. THE WILD FLOWERS OF SEDBERGH

WATER-LILY FAMILY NYMPHAEACEAE	White Water-lily	<i>Nymphaea alba</i>
BUTTERCUP FAMILY RANUNCULACEAE		
Marsh Marigold		<i>Calthra palustris</i>
Globe Flower		<i>Trollius europaeus</i>
Wood Anemone		<i>Anemone nemorosa</i>
Meadow Buttercup		<i>Ranunculus acris</i>
Creeping Buttercup		<i>R. repens</i>
Bulbous Buttercup		<i>R. bulbosus</i>
Goldilocks		<i>R. auricomus</i>
Lesser Spearwort		<i>R. flammula</i>
Lesser Celandine		<i>R. ficaria</i>
		<i>R. ficaria</i> subsp. <i>ficaria</i>
Ivy-leaved Crowfoot		<i>R. hederaceus</i>
Round-leaved Water-crowfoot		<i>R. omiophyllus</i>
Pond Water-crowfoot		<i>R. peltatus</i>
Columbine		<i>Aquilegia vulgaris</i>
Monkshood (NHB 2015)		<i>Aconitum napellus</i>
Lesser Meadow-rue		<i>Thalictrum minus</i>
		NSS
POPPY FAMILY PAPAVERACEAE		
Opium Poppy		<i>Papaver somniferum</i>
Common Poppy		<i>P. rhoeas</i>
Long-headed Poppy		<i>P. dubium</i>
Welsh Poppy		<i>Meconopsis cambrica</i>
Greater Celandine		<i>Chelidonium majus</i>
		NSS
FUMITORY FAMILY FUMARIACEAE		
Climbing Corydalis		<i>Ceratocapnos claviculata</i>
White Ramping-fumitory		<i>Fumaria capreolata</i>
Common Ramping-fumitory		<i>F. muralis</i>
Common Fumitory		<i>F. officinalis</i>
NETTLE FAMILY URTICACEAE	Stinging Nettle	<i>Urtica dioica</i>
GOOSEFOOT FAMILY CHENOPodiACEAE		
Good King Henry		<i>Chenopodium bonus-henricus</i>
Fat Hen		<i>C. album</i>
Spear-leaved Orache		<i>Atriplex prostrata</i>
Common Orache		<i>A. patula</i>
PURSLANE FAMILY PORTULACAEAE		
Pink Purslane		<i>Claytonia sibirica</i>
Blinks		<i>Montia fontana</i>
		<i>M. fontana</i> subsp. <i>fontana</i>

PINK FAMILY	
CARYOPHYLLACEAE	
Thyme-leaved Sandwort	<i>Arenaria serpyllifolia</i>
Three-nerved Sandwort	<i>Moehringia trinervia</i>
Wood Stitchwort	<i>Stellaria nemorum</i>
Common Chickweed	<i>S. media</i>
Greater Stitchwort	<i>S. holostea</i>
Lesser Stitchwort	<i>S. graminea</i>
Bog Stitchwort	<i>S. uliginosa</i>
Common Mouse-eared Chickweed	<i>Cerastium fontanum</i>
Sticky Mouse-eared Chickweed	<i>C. glomeratum</i>
Knotted Pearlwort	<i>Sagina nodosa</i>
Procumbent Pearlwort	<i>S. procumbens</i>
Annual Pearlwort	<i>S. arpetala</i> subsp. <i>erecta</i>
Corn Spurrey	<i>Spergula arvensis</i>
Lesser Sea-spurrey	<i>Spergularia marina</i>
Ragged Robin	<i>Lychnis flos-cuculi</i>
Bladder Campion	<i>Silene vulgaris</i>
Sea Campion	<i>S. uniflora</i>
White Campion	<i>S. latifolia</i>
Red Campion	<i>S. dioica</i>
	<i>S. latifolia</i> x <i>S. dioica</i>
DOCK FAMILY	
POLYGONACEAE	
Common Bistort	<i>Persicaria bistorta</i>
Red Shank	<i>P. maculosa</i>
Pale Persicaria	<i>P. lapathifolia</i>
Water Pepper	<i>P. hydropiper</i>
Small Water Pepper	<i>P. minor</i>
Small-leaved Knotgrass	<i>Polygonum arenastrum</i>
Knotweed	<i>P. aviculare</i>
Japanese Knotweed	<i>Fallopia japonica</i>
Giant Knotweed	<i>F. sachalinensis</i>
Black Bindweed	<i>F. convolvulus</i>
Sheep Sorrel	<i>Rumex acetosella</i>
Common Sorrel	<i>R. acetosa</i>
Curled Dock	<i>R. crispus</i>
Clustered Dock	<i>R. conglomeratus</i>
Wood Dock	<i>R. sanguineus</i>
Broad-leaved Dock	<i>R. obtusifolius</i>
St JOHN'S WORT FAMILY	
CLUSIACEAE	
Common St John's Wort	<i>Hypericum perforatum</i>
Imperforate St John's Wort	<i>H. maculatum</i>
Square-stemmed St John's Wort	<i>H. tetrapterum</i>
Trailing St John's Wort	<i>H. humifusum</i>
Slender St John's Wort	<i>H. pulchrum</i>
Hairy St John's Wort	<i>H. hirsutum</i>
MALLOW FAMILY	
MALVACEAE	
Musk Mallow	<i>Malva moschata</i>
Common Mallow	<i>M. sylvestris</i>
SUNDEW FAMILY	
DROSERACEAE	
Sundew	<i>Drosera rotundifolia</i>
VIOLET FAMILY	
VIOLACEAE	
Common Dog Violet	<i>Viola riviniana</i>
	<i>V. riviniana</i> x <i>V. canina</i>
Pale Wood Violet	<i>V. reichenbachiana</i>
Dog Violet	<i>V. canina</i>
Marsh Violet	<i>V. palustris</i>
Mountain Pansy	<i>V. lutea</i>
Wild Pansy	<i>V. tricolor</i>
Field Pansy - NHB 2007	<i>V. arvensis</i>

CRESS FAMILY	
BRASSICACEAE	
Hedge Mustard	<i>Sisymbrium officinale</i>
Garlic Mustard	<i>Alliaria petiolata</i>
Thale Cress	<i>Arabidopsis thaliana</i>
Dame's Violet	<i>Hesperis matronalis</i>
Winter Cress	<i>Barbarea vulgaris</i>
Watercress	<i>Rorippa nasturtium-aquaticum</i>
Marsh Watercress	<i>R. palustris</i>
Creeping Yellowcress	<i>R. sylvestris</i>
Horse Radish	<i>Amoracia rusticana</i>
Large Bittercress	<i>Cardamine amara</i>
Cuckoo Flower	<i>C. pratensis</i>
Wavy Bittercress	<i>C. flexuosa</i>
Hairy Bittercress	<i>C. hirsuta</i>
Garden Arabis	<i>Arabis caucasica</i>
Hairy Rockcress	<i>A. hirsuta</i>
Honesty	<i>Lunaria annua</i>
Whitlow-grass	<i>Erophila verna</i>
Glabrous Whitlow-grass	<i>E. glabrescens</i>
English Scurvy-grass	<i>Cochlearia anglica</i>
Common Scurvy-grass	<i>C. officinalis</i>
Pyrenean Scurvy-grass	<i>C. pyrenaica</i>
Danish Scurvy-grass	<i>C. danica</i>
Shepherd's Purse	<i>Capsella bursa-pastoris</i>
Field Penny-cress	<i>Thlaspi arvense</i>
Perennial Wall-rocket	<i>Diplotaxis tenuifolia</i>
Rape	<i>Brassica napus</i>
Turnip	<i>B. rapa</i>
Charlock	<i>Sinapis arvensis</i>
White Mustard	<i>S. alba</i>
MIGNONETTE FAMILY	
RESEDACEAE	
Weld, Dyer's Rocket	<i>Reseda luteola</i>
Wild Mignonette	<i>R. lutea</i>
CROWBERRY FAMILY	
EMPETRACEAE	
Crowberry	<i>Empetrum nigrum</i>
HEATHER FAMILY	
ERICACEAE	
Rhododendron	<i>Rhododendron ponticum</i>
Bog Rosemary	<i>Andromeda polifolia</i>
Ling Heather	<i>Calluna vulgaris</i>
Cross-leaved Heather	<i>Erica tetralix</i>
Bell Heather	<i>E. cinerea</i>
Cranberry	<i>Vaccinium oxycoccus</i>
Cowberry	<i>V. vitis-idaea</i>
Bilberry	<i>V. myrtillus</i>
PRIMROSE FAMILY	
PRIMULACEAE	
Primrose	<i>Primula vulgaris</i>
Cowslip	<i>P. veris</i>
Bird's-eye Primrose	<i>P. farinosa</i>
Yellow Pimpernel	<i>Lysimachia nemorum</i>
Creeping Jenny	<i>L. nummularia</i>
Yellow Loosestrife	<i>L. vulgaris</i>
Dotted Loosestrife	<i>L. punctata</i>
Bog Pimpernell	<i>Anagallis tenella</i>
Scarlett Pimpernell	<i>A. arvensis</i>
Chaffweed	<i>A. minima</i>
GOOSEBERRY FAMILY	
GROSSULARIACEAE	
Downy Currant	<i>Ribes spicatum</i>
Red Currant	<i>R. rubrum</i>
Black Currant	<i>R. nigrum</i>
Gooseberry	<i>R. uva-crispa</i>

STONECROP FAMILY	
CRASSULACEAE	
Orpine	<i>Sedum telephium</i>
Biting Stonecrop	<i>S. acre</i>
White Stonecrop	<i>S. album</i>
English Stonecrop	<i>S. anglicum</i>
Rock Stonecrop	<i>S. fosterianum</i>

SAXIFRAGE FAMILY	
SAXIFRAGACEAE	
Starry Saxifrage	<i>Saxifraga stellaris</i>
Yellow Mountain Saxifrage	<i>S. aizoides</i>
Meadow Saxifrage	<i>S. granulata</i>
Mossy Saxifrage	<i>S. hypnoides</i>
Pick-a-back Plant	<i>Tolmiea menziesii</i>
Opposite-leaved Golden Saxifrage	<i>Chrysosplenium oppositifolium</i>
Alternate-leaved Golden Saxifrage	<i>C. alternifolium</i>
Grass of Parnassus	<i>Parnassia palustris</i>

ROSE FAMILY	
ROSACEAE	
Meadowsweet	<i>Filipendula ulmaria</i>
Stone Bramble	<i>R. saxatilis</i>
Raspberry	<i>R. idaeus</i>
“Blackberry Bramble”	<i>Rubus</i> subgenus <i>Rubus</i>
“Blackberry Bramble”	<i>Rubus Rubus</i> spp
“Blackberry Bramble”	<i>R. scissus</i>
“Blackberry Bramble”	<i>R. lindleianus</i>
“Blackberry Bramble”	<i>R. robiae</i>
“Blackberry Bramble”	<i>R. incurviformis</i>
“Blackberry Bramble”	<i>R. lindebergii</i>
“Blackberry Bramble”	<i>R. nemoralis</i>
“Blackberry Bramble”	<i>R. polyanthemus</i>
“Blackberry Bramble”	<i>R. anisacanthos</i>
“Blackberry Bramble”	<i>R. infestus</i>
“Blackberry Bramble”	<i>R. adenanthoides</i>
“Blackberry Bramble”	<i>R. dasypylus</i>
“Blackberry Bramble”	<i>R. hylocharis</i>
Marsh Cinquefoil	<i>Potentilla palustris</i>
Silverweed	<i>P. anserina</i>
Tormentil	<i>P. erecta</i>
Tormentil	<i>P. erecta</i> x <i>P. reptans</i>
Trailing Tormentil	<i>P. anglica</i>
Creeping Cinquefoil	<i>P. reptans</i>
Barren Strawberry	<i>P. sterilis</i>
Wild Strawberry	<i>Fragaria vesca</i>
Water Avens	<i>Geum rivale</i>
Herb Bennett / Wood Avens	<i>G. urbanum</i>
	<i>G. rivale</i> x <i>G. urbanum</i>
Agrimony	<i>Agrimonia eupatoria</i>
Great Barnet	<i>Sanguisorba officinalis</i>
Alpine Lady's Mantle	<i>Alchimilla alpina</i>
	<i>A. xanthochlora</i>
	<i>A. filiculais</i> subsp. <i>vestita</i>
Parsley-piert	<i>A. glabra</i>
Slender Parsley-piert	<i>Aphanes arvensis</i>
“Dog Rose”	<i>A. inexpectata</i>
“Dog Rose”	<i>Rosa canina</i> sensu lato
Hairy Dog Rose	<i>R. canina</i> sensu stricto
“Downy Rose”	<i>R. caesia</i>
Blackthorne	<i>R. mollis</i>
Wild Plum	<i>Prunus spinosa</i>
Wild Cherry	<i>P. domestica</i>
Bird Cherry	<i>P. avium</i>
Cherry Laurel	<i>P. padus</i>
Crab Apple	<i>P. laurocerasus</i>
Apple	<i>Malus sylvestris</i>
Rowan	<i>M. domestica</i>
Hawthorne	<i>Sorbus aucuparia</i>
	<i>Craugastus monogyna</i>

PEA FAMILY

FABACEAE (Leguminosae)

Common Bird's-foot Trefoil	<i>Lotus corniculatus</i>
Greater Bird's-foot Trefoil	<i>L. pedunculatus</i>
Tufted Vetch	<i>Vicia cracca</i>
Wood Vetch	<i>V. sylvatica</i>
Bush Vetch	<i>V. sepium</i>
Bitter Vetch	<i>Lathyrus linifolius</i>
Meadow Vetch	<i>L. pratensis</i>
Common Restarrow	<i>Ononis repens</i>
Common/Ribbed Melilot	<i>Melilotus officinalis</i>
Black Medick	<i>Medicago lupulina</i>
White Clover	<i>Trifolium repens</i>
Alsike Clover	<i>T. hybridum</i>
Hop Trefoil	<i>T. campestre</i>
Lesser Trefoil	<i>T. dubium</i>
Red Clover	<i>T. pratense</i>
Zig-zag Clover	<i>T. medium</i>
Laburnum	<i>Laburnum anagyroides</i>
Broom	<i>Cytisus scoparius</i>
Dyer's Greenwood	<i>Gentista tinctoria</i>
Gorse	<i>Ulex europaeus</i>
Western Gorse	<i>U. gallii</i>

LOOSE-STRIFE FAMILY

LYTHRACEAE

Purple Loosestrife	<i>Lythrum salicaria</i>
Water Purslane	<i>L. portula</i>

WILLOW-HERB FAMILY

ONAGRACEAE

Great Hairy Willow-herb	<i>Epilobium hirsutum</i>
Small-flowered Hairy Willow-herb	<i>E. parviflorum</i>
Broad-leaved Willow-herb	<i>E. montanum</i>
Short-fruited Willow-herb	<i>E. obscurum</i>
American Willow-herb	<i>E. ciliatum</i>
Marsh Willow-herb	<i>E. palustre</i>
Chickweed Willow-herb	<i>E. alsinifolium</i>
New Zealand Willow-herb	<i>E. brunnescens</i>
Rosebay Willow-herb	<i>Chamerion angusifolium</i>
Enchanter's Nightshade	<i>Circaeaa lutetiana</i>
Intermediate Enchanter's Nightshade	<i>C. lutetiana x C. alpina</i>
Evening Primrose	<i>Oenothera glazioviana x O. biennis</i>
Alternate Water-milfoil	<i>Oenothera glazioviana x O. biennis</i> <i>Myriophyllum alterniflorum</i>

NSS

SPURGE FAMILY

EUPHORBIACEAE

Dog's Mercury	<i>Mercurialis perennis</i>
Sun Spurge	<i>Euphorbia helioscopia</i>
Petty Spurge	<i>E. peplus</i>

FLAX FAMILY

LINACEAE

Fairy flax	<i>Linum catharticum</i>
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MILKWORT FAMILY

POLYGALACEAE

Common Milkwort	<i>Polygala vulgaris</i>
Thyme-leaved Milkwort	<i>P. serpyllifolia</i>

WOOD SORREL FAMILY

OXALIDACEAE

Wood Sorrel	<i>Oxalis acetosella</i>
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GERANIUM FAMILY

GERANIACEAE

Wood Cranesbill	<i>G. sylvaticum</i>
Meadow Cranesbill	<i>G. pratense</i>
Cut-leaved Cranesbill	<i>G. dissectum</i>
Dove's-foot Cranesbill	<i>G. molle</i>
Shining Cranesbill	<i>G. lucidum</i>
Herb Robert	<i>G. robertianum</i>
Dusky Cranesbill	<i>G. phaeum</i>

BALSAM FAMILY

BALSAMINACEAE

Policeman's Helmet	<i>Impatiens glandulifera</i>
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IVY FAMILY

ARALIACEAE

Ivy	<i>Hedera helix</i> subsp. <i>helix</i>
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CARROT FAMILY

APIACEAE (Umbelliferae)

Great Masterwort (NHB 2015)	<i>Astrantia major</i>
Marsh Pennywort	<i>Hydrocotyl vulgaris</i>
Sanicle	<i>Sanicle europaea</i>
Shepherd's Needle(1898)	(<i>Scandix pecten-veneris</i>)
Cow Parsley	<i>Anthriscus sylvestris</i>
Sweet Cicely	<i>Myrrhis odorata</i>
Pignut	<i>Conopodium majus</i>
Great Burnet Saxifrage	<i>Pimpinella major</i>
Ground Elder	<i>Aegopodium podagraria</i>
Hemlock Water-dropwort	<i>Oenanthe crocata</i>
Fool's Parsley	<i>Aethusa cynapium</i>
Spignel	<i>Meum athamanticum</i>
Lesser Marshwort	<i>A. inundatum</i>
Wild Angelica	<i>Angelica sylvestris</i>
Hogweed	<i>Heracleum sphondylium</i>
Giant Hogweed (last seen 1995)	<i>H. mantegazzianum</i>
Upright Hedge Parsley	<i>Torilis japonica</i>

NSS

NIGHTSHADE FAMILY

SOLANACEAE

Woody Nightshade	<i>Solanum dulcamara</i>
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BINDWEED FAMILY

CONVOLVULACEAE

Field Bindweed	<i>Convolvulus arvensis</i>
Hedge Bindweed	<i>Calystegia sepium</i>
Hairy Bindweed	<i>C. pulchra</i>
Great Bindweed	<i>C. silvatica</i>

BOGBEAN FAMILY

MENYANTHACEAE

Bogbean	<i>Menyanthes trifoliata</i>
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BORAGE FAMILY

BORAGINACEAE

Comfrey	<i>Symphytum officinale</i>
Russian Comfrey	<i>S. officinale</i> x <i>S. asperum</i>
Tuberous Comfrey	<i>S. tuberosum</i>
Green Alkanet	<i>Pentaglottis sempervirens</i>
Borage	<i>Borago officinalis</i>
Water Forget-me-not	<i>Myosotis scorpioides</i>
Creeping Forget-me-not	<i>M. secunda</i>
Pale Forget-me-not	<i>M. stolonifera</i>
Tufted Forget-me-not	<i>M. laxa</i>
Wood Forget-me-not	<i>M. sylvatica</i>
Field Forget-me-not	<i>M. arvensis</i>
Yellow & Blue Forget-me-not	<i>M. discolor</i>

NSS

MINT FAMILYLAMIACEAE (*Labiatae*)

Betony	<i>Stachys officinalis</i>
Hedge Woundwort	<i>S. sylvatica</i>
Marsh Woundwort	<i>S. palustris</i>
	<i>S. sylvatica</i> x <i>S. palustris</i>
Yellow Archangel	<i>Lamiastrum galeobdolon</i>
White Deadnettle	<i>Lamium album</i>
Red Deadnettle	<i>L. purpureum</i>
Narrow-leaved/Large-flowered Hemp-nettle	<i>Galeopsis speciosa</i>
Common Hemp-nettle	<i>G. tetrahit</i> & <i>G. bifida</i>
Skull-cap	<i>Scutellaria galericulata</i>
Wood Sage	<i>Teucrium scorodonia</i>
Bugle	<i>Ajuga reptans</i>
Ground Ivy	<i>Glechoma hederacea</i>
Self Heal	<i>Prunella vulgaris</i>
Wild Basil	<i>Clinopodium vulgare</i>
Marjoram	<i>Origanum vulgare</i>
Corn Mint	<i>Mentha arvensis</i>
	<i>M. arvensis</i> x <i>M. aquatica</i>
Water Mint	<i>M. aquatica</i>
Peppermint	<i>M. aquatica</i> x <i>M. spicata</i>

STARWORT FAMILY

CALLITRICHACEAE

Common Water-starwort	<i>Callitrichia stagnalis</i>
Intermediate Water-starwort	<i>C. hamulata</i>

PLANTAIN FAMILY

PLANTAGINACEAE

Greater Plantain	<i>Plantago major</i>
Hoary Plantain	<i>P. media</i>
Ribwort Plantain	<i>P. lanceolata</i>
Shore-weed	<i>Littorella uniflora</i>

FIGWORT FAMILY

SCROPHULARIACEAE

Great Mullein	<i>Verbascum thapsus</i>
Dark Mullein	<i>V. nigrum</i>
Figwort	<i>Scrophularia nodosa</i>
Monkey Flower	<i>Mimulus guttatus</i>
"Blood-drop Emlets"	<i>M. guttatus</i> x <i>M. luteus</i>
Small Toadflax	<i>Chaenorhinum minus</i>
Ivy-leaved Toadflax	<i>Cymbalaria muralis</i>
Toad flax	<i>Linaria vulgaris</i>
Pale Toadflax	<i>L. repens</i>
Foxglove	<i>Digitalis purpurea</i>
Thyme-leaved Speedwell	<i>Veronica serpyllifolia</i>
Heath Speedwell	<i>V. officinalis</i>
Germander Speedwell	<i>V. chamaedrys</i>
Wood Speedwell	<i>V. montana</i>
Marsh Speedwell	<i>V. scutellata</i>
Brooklime	<i>V. beccabunga</i>
Blue Water-speedwell	<i>V. anagallis-aquatica</i>
Wall Speedwell	<i>V. arvensis</i>
American Speedwell	<i>V. peregrina</i>
Field Speedwell	<i>V. agrestis</i>
Grey Speedwell	<i>V. polita</i>
Common Speedwell	<i>V. persica</i>
Slender Speedwell	<i>V. filiformis</i>
Ivy-leaved Speedwell	<i>V. hederifolia</i>
Common Cow-wheat	<i>Melampyrum pratense</i>
"Eyebrights"	<i>Euphrasia</i> spp.

E. officinalis subsp. *roskoviana*
E. officinalis subsp. *monticola*

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/ Figworts continued.....

...continuation of Figworts

Arctic Eyebright	<i>E. arctica</i>
Wind Eyebright	<i>E. nemorosa</i>
	<i>E. confusa</i>
	<i>E. scotica</i>
Red Bartsia	<i>Odontites vernus</i>
Yellow Rattle	<i>Rhinanthus minor</i>
Marsh Lousewort	<i>Pedicularis palustris</i>
Lousewort	<i>P. sylvatica</i>

BROOMRAPE FAMILY OROBANCHACEAE

Toothwort	<i>Lathraea squamaria</i>
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BUTTERWORT FAMILY LENTIBULARIACEAE

Common Butterwort	<i>Pinguicula vulgaris</i>
Greater Bladderwort	<i>Utricularia australis</i>

BELLFLOWER FAMILY CAMPANULACEAE

Giant Bellflower	<i>Campanula latifolia</i>
Harebell	<i>C. rotundifolia</i>
Sheep's-bit	<i>Jasione montana</i>

BEDSTRAW FAMILY RUBIACEAE

Northern Bedstraw	<i>Galium boreale</i>
Sweet Woodruff	<i>G. odoratum</i>
Fen Bedstraw	<i>G. uliginosum</i>
Marsh Bedstraw	<i>G. palustre</i>
Lady's Bedstraw	<i>G. verum</i>
Hedge Bedstraw	<i>G. mollugo</i>
Heath Bedstraw	<i>G. saxatile</i>
Cleavers	<i>G. aperine</i>
Crosswort	<i>Cruciata laevipes</i>

HONEYSUCKLE FAMILY CAPRIFOLIACEAE

Elder	<i>Sambucus nigra</i>
Gelder Rose	<i>Viburnum opulus</i>
Snowberry	<i>Symphoricarpos albus</i>
Honeysuckle	<i>Lonicera periclymenum</i>

MOSCHATEL FAMILY ADOXACEAE

Townhall Clock	<i>Adoxa moschatellina</i>
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VALERIAN FAMILY VALERIANACEAE

Lamb's Lettuce	<i>Valerianella locusta</i>
Valerian	<i>V. officinalis</i>
Marsh Valerian	<i>V. dioica</i>

TEASEL FAMILY DIPSACACEAE

Teasel	<i>Dipsacus fullonum</i>
Field Scabious	<i>Knautia arvensis</i>
Devil's-bit Scabious	<i>Succisa pratensis</i>
Small Scabious	<i>Scabiosa columbaria</i>

DAISY FAMILY
ASTERACEAE (Compositae)

Carline Thistle	<i>Carlina vulgaris</i>
Lesser Burdock	<i>Arctium minus</i>
Welted Thistle	<i>Carduus crispus</i>
Spear Thistle	<i>Cirsium vulgare</i>
Melancholy Thistle	<i>C. heterophyllum</i>
Marsh Thistle	<i>C. palustre</i>
Saw-wort	<i>Serratula tinctoria</i>
Perennial Cornflower	<i>Centaura montana</i>
Cornflower (NHB 1997)	<i>C. cyanus</i>
Lesser Knapweed	<i>C. nigra</i>
Nipplewort	<i>Lapsana communis</i>
Cat's Ear	<i>Hypochaeris radicata</i>
Autumn Hawkbit	<i>Leontodon autumnalis</i>
Rough Hawkbit	<i>L. hispidus</i>
Lesser Hawkbit	<i>L. saxatilis</i>
Bristly Ox-tongue(1899)	<i>Picris echioides</i>
Goat's Beard	<i>Tragopogon pratensis</i>
Perennial Sow-thistle	<i>Sonchus arvensis</i>
Smooth Sow-thistle	<i>S. oleraceus</i>
Prickly Sow-thistle	<i>S. asper</i>
Wall lettuce	<i>Mycelis muralis</i>
"Dandelion"	<i>Taraxacum oxoniense</i>
"Dandelion"	<i>T. maculosum</i>
"Dandelion"	<i>T. brachyglossum</i>
"Dandelion"	<i>T. faeroense</i>
"Dandelion"	<i>T. lacistophyllum</i>
"Dandelion"	<i>T. unguilobum</i>
"Dandelion"	<i>T. hamatiforme</i>
"Dandelion"	<i>T. duplidentiflous</i>
"Dandelion"	<i>T. hamatum</i>
Marsh Hawksbeard	<i>Crepis paludosa</i>
Smooth Hawksbeard	<i>C. capillaris</i>
Mouse-ear Hawkweed	<i>Pilosella officinarium</i>
Fox and Cubs	<i>P. aurantiaca sbsp. <i>Carpathicola</i></i>
	<i>Hieracium subcatum</i>
	<i>H. lissolepium</i>
Common Hawkweed	<i>H. vulgatum</i>
	<i>H. acuminatum</i>
	<i>H. diaphanum</i>
	<i>H. oistophyllum</i>
	<i>H. auratiflorum</i>
	<i>H. duriceps</i>
	<i>Hieracium pellucidum</i>
	<i>H. sabaudum</i>
	<i>H. grandidens</i>
	<i>H. caledonicum</i>
	<i>H. eboracense</i>
	<i>H. leyii</i>
	<i>H. stenopholidium</i>
	<i>H. anglicum</i>
	<i>H. ampliatum</i>
Pearly Everlasting(1939)	<i>Anaphalis margaritacea</i>
Marsh Cudweed	<i>Gnaphalium uliginosum</i>
Golden Rod	<i>Solidago virgaurea</i>
Daisy	<i>Bellis perennis</i>
Feverfew	<i>Tanacetum parthenium</i>
Tansy	<i>T. vulgare</i>
Mugwort	<i>Artemisia vulgaris</i>
Sneezewort	<i>Achillea ptarmica</i>
Yarrow	<i>A. millefolium</i>
Ox-eye Daisy	<i>Leucanthemum vulgare</i>
Wild Camomile	<i>Matricaria recutita</i>
Pineapple Mayweed	<i>M. discoidea</i>
Sea Mayweed	<i>Tripleurospermum inodorum</i>
Ragwort	<i>Senecio jacobaea</i>

/ Daisies continued.....

..../ continuation of Daisies

Marsh Ragwort	<i>S. aquaticus</i>
Oxford Ragwort	<i>S. jacobaea x S. aquaticus</i>
Groundsel	<i>S. squalidus</i>
Wood Groundsel	<i>S. vulgaris</i>
Sticky Groundsel	<i>S. sylvaticus</i>
Leopard's Bane	<i>S. viscosus</i>
Coltsfoot	<i>Doronicum pardalianches</i>
Butterbur	<i>Tussilago farfara</i>
White Butterbur	<i>Petasites hybridus</i>
Winter Heliotrope	<i>P. albus</i>
Hemp Agrimony	<i>P. fragrans</i>
	<i>Eupatorium cannabinum</i>

FROGBIT FAMILY HYDROCHARITACEAE

Canadian Pondweed	<i>Elodea canadensis</i>
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ARROW-GRASS FAMILY JUNCAGINACEAE

Marsh Arrow-grass	<i>Triglochin palustre</i>
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PONDWEED FAMILY POTAMOGETONACEAE

Broad-leaved Pondweed	<i>Potamogeton natans</i>
Bog Pondweed	<i>P. polygonifolius</i>
Various-leaved Pondweed	<i>P. gramineus</i>
Red Pondweed	<i>P. alpinus</i>
Small Pondweed	<i>P. berchtoldii</i>

ARUM FAMILY ARACEAE

Cuckoo Pint	<i>Arum maculatum</i>
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DUCKWEED FAMILY LEMNACEAE

Common Duckweed	<i>Lemna minor</i>
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LILY FAMILY LILIACEAE

Bog Asphodel	<i>Narthecium ossifragum</i>
Lily of the Valley(NHB 1999)	<i>Convallaria majalis</i>
Solomon's Seal	<i>Polygonatum multiflorum</i>
Herb Paris	<i>Paris quadriflora</i>
Bluebell	<i>Hyacinthoides non-scripta</i>

DAFFODIL FAMILY AMARYLLIDACEAE

Wild Garlic	<i>Allium ursinum</i>
Snowdrop	<i>Galanthus nivalis</i>

IRIS FAMILY IRIDACEAE

Yellow Iris	<i>Iris pseudacorus</i>
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ORCHID FAMILY ORCHIDACEAE

Broad-leaved Helleborine	<i>Epipactis helleborine</i>
Bog Orchid	<i>Hammarbya paludosa</i>
Greater Butterfly Orchid	<i>Platanthera chlorantha</i>
Small White Orchid	<i>Pseudorchis albida</i>
Fragrant Orchid	<i>Gymnadenia conopsea</i>
Common Spotted Orchid	<i>Dactylorhiza fuchsii</i>
Heath Spotted Orchid	<i>D. maculata</i>
Northern Marsh Orchid (NHB 2007)	<i>D. maculata</i>
Early Purple Orchid	<i>Orchis mascula</i>

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2. THE GRASSES, SEDGES, REEDS & RUSHES OF SEDBERGH

RUSH FAMILY
JUNCACEAE

Heath Rush	<i>Juncus squarosus</i>
Slender Rush	<i>J. tenuis</i>
Toad Rush	<i>J. bufonius</i>
Jointed Rush	<i>J. articulatus</i>
Sharp-flowered Rush	<i>J. acutiflorus</i>
Bulbous Rush	<i>J. bulbosus</i>
Hard Rush	<i>J. inflexus</i>
Soft Rush	<i>J. effusus</i>
Compact Rush	<i>J. conglomeratus</i>
Hairy Wood-rush	<i>Luzula pilosa</i>
Great Wood-rush	<i>L. sylvatica</i>
Field Wood-rush	<i>L. campestris</i>
Heath Wood-rush	<i>L. multiflora</i>

SEDGE FAMILY
CYPERACEAE

Common Cotton-grass	<i>Eriophorum angustifolium</i>
Hare's-tail Cotton-grass	<i>E. vaginatum</i>
Deer Grass	<i>Trichophorum cespitosum</i>
Common Spike-rush	<i>Eleocharis palustris</i>
Few-flowered Spike-rush	<i>E. quinqueflora</i>
Bristle Club-rush	<i>Isolepis setacea</i>
Floating Club-rush	<i>Eleogiton fluitans</i>
Flat Sedge	<i>Blymus compressus</i>
White Beak-sedge	<i>Rhynchospora alba</i>
Greater Tussock Sedge	<i>Carex paniculata</i>
Prickly Sedge	<i>C. muricata</i>
Brown Sedge	<i>C. disticha</i>
Remote Sedge	<i>C. remota</i>
Oval Sedge	<i>C. ovalis</i>
Star Sedge	<i>C. echinata</i>
Dioecious Sedge	<i>C. dioica</i>
White Sedge	<i>C. curta</i>
Hairy Sedge	<i>C. hirta</i>
Cyperus Sedge(1967)	<i>C. pseudocyperus</i>
Bottle Sedge	<i>C. rostrata</i>
Bladder Sedge	<i>C. vesicaria</i>
Wood Sedge	<i>C. sylvatica</i>
Glaucous Sedge	<i>C. flacca</i>
Carnation Sedge	<i>C. panicea</i>
Smooth Sedge	<i>C. laevigata</i>
Green-ribbed Sedge	<i>C. binervis</i>
Tawny Sedge	<i>C. hostiana</i>
Pale Sedge	<i>C. viridula</i>
Spring Sedge	<i>C. pallescens</i>
Pill Sedge	<i>C. caryophyllea</i>
Slender Tufted-sedge	<i>C. pilulifera</i>
Common Sedge	<i>C. acuta</i>
Stiff Sedge	<i>C. nigra</i>
Flea Sedge	<i>C. bigelowii</i>
	<i>C. pulicaris</i>

GRASS FAMILY
POACEAE (Gramineae)

Mat Grass	<i>Nardus stricta</i>
Wood Millet	<i>Milium effusum</i>
Meadow Fescue	<i>Festuca pratensis</i>
Tall Fescue	<i>F. arundinacea</i>
Giant Fescue	<i>F. gigantia</i>
Wood Fescue	<i>F. altissima</i>
Red Fescue	<i>F. rubra</i>
Sheep's Fescue	<i>F. ovina</i>
Viviparous Sheep's Fescue	<i>F. vivipara</i>
Perennial Rye-grass	<i>Lolium perenne</i>
Italian Rye-grass	<i>L. multiflorum</i>
Crested Dog's-tail	<i>Cynosurus cristatus</i>
Quaking Grass	<i>Briza media</i>
Annual Meadow Grass	<i>Poa annua</i>
Rough Meadow Grass	<i>P. trivialis</i>
Smooth Meadow Grass	<i>P. pratensis</i>
Flattened Meadow Grass	<i>P. compressa</i>
Wood Meadow Grass	<i>P. nemoralis</i>
Cock's-foot	<i>Dactylis glomerata</i>
Whorl Grass	<i>Catabrosa aquatica</i>
Reed Sweet-grass	<i>Glyceria maxima</i>
Floating Sweet-grass	<i>G. fluitans</i>
Small Sweet-grass	<i>G. declinata</i>
Mountain Mellick	<i>Melica nutans</i>
Wood Mellick	<i>M. uniflora</i>
	<i>Helictrichon pubescens</i>
	<i>H. pratense</i>
False Oat-grass	<i>Arrhenatherum elatius</i>
Yellow Oat-grass	<i>Trisetum flavescens</i>
Tufted Hair-grass	<i>Deschampsia cespitosa</i>
Wavy Hair-grass	<i>D. flexuosa</i>
Yorkshire Fog	<i>Holcus lanatus</i>
Creeping Soft-grass	<i>H. mollis</i>
Early Hair-grass	<i>A. praecox</i>
Sweet Vernal Grass	<i>Anthoxanthum odoratum</i>
Reed Canary Grass	<i>Phalaris arundinacea</i>
Common Bent	<i>Agrostis capillaris</i>
Creeping Bent	<i>A. stolonifera</i>
Brown Bent	<i>A. canina</i>
Meadow Fox-tail	<i>Alopecurus pratensis</i>
Marsh Fox-tail	<i>A. geniculatus</i>
Cat's-tail	<i>Phleum pratense</i>
Smaller Cat's-tail	<i>P. bertolinii</i>
Soft Brome	<i>Bromus hordeaceus</i>
Hairy Brome	<i>Bromopsis ramosa</i>
Barred Brome-grass	<i>Anisantha sterilis</i>
False Brome	<i>Brachypodium sylvaticum</i>
Bearded Couch	<i>Elymus caninus</i>
couch Grass	<i>Elytrigia repens</i>
Heath Grass	<i>Danthonia decumbens</i>
Purple Moor-grass	<i>Molinia caerulea</i>
Common Reed	<i>Phragmites australis</i>

BUR-REED FAMILY
SPARGANIACEAE

Branched Bur-reed	<i>Sparganium erectum</i> <i>S. erectum</i> subsp. <i>microcarpum</i>
Unbranched Bur-reed	<i>S. emersum</i>
Least bur-reed	<i>S. natans</i>

BULRUSH FAMILY
TYPHACEAE

Bulrush *Typha latifolia*

3. THE TREES & SHRUBS OF SEDBERGH

PINE FAMILY PINACEAE

Wellingtonia	<i>Sequoia wellingtonia</i>
Douglas Fir	<i>Pseudotsuga menziesii</i>
Norway Spruce	<i>Picea abies</i>
Sitka Spruce	<i>P. sitchensis</i>
European Larch	<i>Larix decidua</i>
Scot's Pine	<i>Pinus sylvestris</i>

MONKEY-PUZZLE FAMILY ARAUCARIACEAE

Monkey Puzzle Tree *Araucaria araucana*

JUNIPER FAMILY CUPRESSACEAE

Lawson's Cypress *Chamaecyparis lawsoniana*

YEW FAMILY TAXACEAE

Yew *Taxus baccata*

ELM FAMILY ULMACAEAE

Wych Elm *Ulmus glabra*

BEECH FAMILY FAGACEAE

Beech	<i>Fagus sylvatica</i>
Sweet Chestnut	<i>Castanea sativa</i>
Turkey Oak	<i>Quercus cerris</i>
Sessile Oak	<i>Q. petraea</i>
Pedunculate Oak	<i>Q. robur</i>

BIRCH FAMILY BETULACEAE

Silver Birch	<i>Betula pendula</i>
Downy birch	<i>B. pubescens</i>
Alder	<i>Alnus glutinosa</i>
Grey alder	<i>A. incana</i>
Hornbeam	<i>Carpinus betulus</i>
Hazel	<i>Corylus avellana</i>

DOGWOOD FAMILY CORNACEAE

Dogwood *Cornus sanguinea*

HOLLY FAMILY AQUIFOLIACEAE

Holly *Ilex aquifolium*

HORSE-CHESTNUT FAMILY

HIPPOCASTANACEAE

Horse Chestnut	<i>Aesculus hippocastanum</i>
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WILLOW FAMILY

SALICACEAE

White Poplar	<i>Populus alba</i>
Aspen	<i>P. tremula</i>
Hybrid Black Polar	<i>P. nigra x P. deltoides</i>
Bog Willow	<i>Salix pentandra</i>
Crack Willow	<i>S. fragillis</i>
White Willow	<i>S. alba</i>
Purple Willow	<i>S. purpurea</i>
Osier	<i>S. viminalis</i>
	<i>Salix viminalis x S. caprea</i>
	<i>S. viminalis x S. cinerea</i>
Goat Willow	<i>S. caprea</i>
Grey Willow	<i>S. cinerea</i>
Eared Willow	<i>S. aurita</i>
Tea-leaved Willow	<i>S. phyllicifolia</i>
Creeping Willow	<i>S. repens</i>
Dwarf Willow	<i>S. herbacea</i>

MAPLE FAMILY

ACERACEAE

Sycamore	<i>Acer pseudoplatanus</i>
Japanese Maple	<i>A. palmatum</i>

ASH FAMILY

OLEACEAE

Ash	<i>Fraxinus excelsior</i>
Lilac	<i>Syringa vulgaris</i>
Wild Privet	<i>Ligustrum vulgare</i>

LIME FAMILY

TELIACEAE

Common Lime	<i>Tilia platyphyllos x T. cordata</i>
Small-leaved Lime	<i>T. cordata</i>

4. THE MOSSES, FERNS & CLUBMOSSES OF SEDBERGH

**CLUBMOSS FAMILY
LYCOPODIACEAE**

Fir Clubmoss	<i>Huperzia selago</i>
Stag's-horn Clubmoss	<i>Lycopodium clavatum</i>

**LESSER CLUBMOSS FAMILY
SELAGINELLACEAE**

Lesser Clubmoss	<i>Selaginella selaginoides</i>
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**HORSETAIL FAMILY
EQUISETACEAE**

Water Horsetail	<i>Equisetum fluviatile</i>
Field Horsetail	<i>E. arvense</i>
Wood Horsetail	<i>E. sylvaticum</i>
Marsh Horsetail	<i>E. palustre</i>
Great Horsetail	<i>E. telmateia</i>

**MAIDENHAIR FERN FAMILY
ADIANTACEAE**

Parsley Fern	<i>Crioptogramma crispa</i>
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**FILMY-FERN FAMILY
HYMENOPHYLLACEAE**

Wilson's Filmy Fern	<i>Hymenophyllum wilsonii</i>
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**POLYPOD FAMILY
POLYPODIACEAE**

Polypody	<i>Polypodium vulgare</i>
Western Polypody	<i>P.interjectum</i>

**BRACKEN FAMILY
DENNSTAEDIACEAE**

Bracken	<i>Pteridium aquilinum</i>
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**MARSH FERN FAMILY
THELYPTERIDACEAE**

Beech Fern	<i>Phegopteris connectilis</i>
Lemon-scented Mountain Fern	<i>Oreopteris limbosperma</i>

**SPLEENWORT FAMILY
ASPLENIACEAE**

Hart's Tongue Fern	<i>Phyllitis scolopendrium</i>
Black Spleenwort	<i>Asplenium adiantum-nigrum</i>
Maidenhair Spleenwort	<i>A. trichomanes</i>
Wall Rue	<i>A. ruta-muraria</i>
Green Spleenwort	<i>A. viride</i>

**LADY-FERN FAMILY
WOODSIACEAE**

Lady Fern	<i>Athyrium filix-femina</i>
Oak Fern	<i>Gymnocarpium dryopteris</i>
Brittle Bladder-fern	<i>Cystopteris fragilis</i>

BUCKLER-FERN FAMILY
DRYOPTERIDACEAE

Soft Shield-fern	<i>Polystichum setiferum</i>
Hard Shield-fern	<i>P.aculeatum</i>
Mountain Male-fern	<i>Dryopteris oreades</i>
Male-fern	<i>D. felix-mas</i>
Scaly Male-fern	<i>D. affinis</i>
Broad Buckler-fern	<i>D. dilatata</i>

HARD-FERN FAMILY
BLECHNACEAE

Hard Fern	<i>Blechnum spicant</i>
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WATER FERN FAMILY
HIPPURIDACEAE

Mare's Tail	<i>Hippuris vulgaris</i>
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