

Dumfriesshire

Rare Plant Register

Christopher Miles

An account of the known distribution of the rare or scarce native plants in Dumfriesshire up to the end of 2015



Orobanche rapum-genistae, Greater Broomrape, Lochar Moss NY0177

Acknowledgements

My thanks go to all those who have contributed plant records in Dumfriesshire over the years. Many people have between them provided hundreds or thousands of records and this publication would not have been possible without them. More particularly before my recording from 1996 onwards plant records have been collected and collated in three distinct periods since the nineteenth century by previous botanists working in Dumfriesshire.

The first of these was George Scott-Eliott. He was an eminent explorer and botanist who edited the first and only Flora so far published for Dumfriesshire in 1896. His work was greatly aided by other contributing botanists probably most notably Mr J.T. Johnstone and Mr W. Stevens.

The second was Humphrey Milne-Redhead who was a GP in Mainsriddle in Kircudbright-shire from 1947. He was both the vice county recorder for Bryophytes and for Higher Plants for all three Dumfries and Galloway vice counties! During his time the first systematic recording was stimulated by work for the first Atlas of the British Flora (1962). He published a checklist in 1971/72.

The third period of recording was between 1975 and 1993 led by Stuart and particularly Mary Martin after Stuart's death. Mary in particular continued systematic recording and recorded for the monitoring scheme in 1987/88.

A special mention should also be made of Derek Ratcliffe. He recorded many of the montane plants from the 1950s onwards publishing "The Mountain Plants of the Moffat Hills" in 1959.

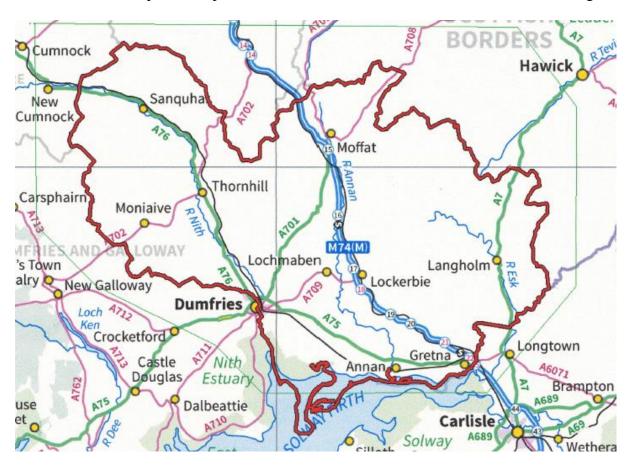
Thanks also to the many determiners who specialise in difficult plant groups, and to Chris Metherell who provided guidelines and an initial template for the Register. I have taken ideas from Stephen Bungard's North Ebudes and Barbara Sumner's Midlothian Register. Finally, thanks to Jim McIntosh (BSBI Scottish officer), Chris Metherell and Rod Corner for suggestions and checking the draft text.

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Introduction

This Register records details of the occurrence of rare or scarce plants in vice-county 72, Dumfriesshire. Dumfriesshire for the purposes of botanical recording follow the boundaries of the more recent local authority areas of Nithsdale, Annandale and Eskdale. That is apart from those parts of lower Nithsdale including part of Dumfries itself that lie to the west of the Nith which fall into Kircudbrightshire. The Register has been produced as part of a national initiative based on the Botanical Society of Britain and Ireland (BSBI) vice-county system. The Register provides a snapshot of the known distribution of rare or scarce plants up to the end of 2015. Many of the records are old, and at low (typically 10 km) resolution. However, it was considered important to produce a document now as a baseline for further recording.



Dumfriesshire vice county 72

Three main uses are envisaged for the Register: firstly, to provide information on taxa at risk and requiring protection; secondly, to provide a baseline in order that as detailed surveying continues, changes in occurrence and distribution can be followed; thirdly to stimulate further recording of these taxa, and to fill in gaps apparent to the reader who may have seen the species in locations that are not mentioned. The author would welcome details of these. Please send to chris.miles01@btinternet.com.

Species are arranged in alphabetical order of their scientific name. The scientific and vernacular names are those used by the Third edition of Stace (2010).

Criteria for inclusion in the Register

The principal criteria used for inclusion in the main portion of the Register are:

- a) International Criteria. Native and archaeophyte* vascular plant species that are currently internationally rare. These are species that are:
- endemic to Britain (a list is available in Cheffings & Farrell, 2005);
- of restricted distribution internationally. These are as listed/occurring in EC Habitats and Species Directive Annex IIb, IVb or Vb; or Appendix I of the Bern Convention or Appendix I or II of CITES;
- b) National Criteria. Native and archaeophyte (established before 1500) vascular plant species that are currently scarce or rare in Britain. These are species that are:
- listed in Schedule 8 of the Wildlife and Countryside Act 1981;
- listed as occurring in IUCN categories CR (critically endangered), EN (endangered), VU (vulnerable) and NT (near threatened) in the British Red Data Book for vascular plants (Cheffings & Farrell 2005);
- nationally rare, occurring in 15 or fewer 10 km squares in Britain;
- nationally scarce, occurring in between 16 and 100 10 km squares in Britain.
- c) Local Criteria. Native and archaeophyte (established before 1500) vascular plant species that are:
- rare, present in 3 sites or fewer in the vice-county and do not fall into the above categories. In this context a 'site' is a discrete area within a moveable kilometre square. Some judgement has been exercised over older doubtful records;
- scarce, present in 4-10 sites in the vice-county and do not fall into the above categories. In this category considerable judgement has been exercised to allow for the historical nature and geographical imprecision of many records. The upper limit has not been strictly adhered to, particularly where there are very few recent records;
- **not scarce,** not meeting the criteria above but of interest in Dumfrieshire because of a particular association with a vulnerable habitat, being on the edge of range or having a notable adverse change in abundance.

Native has been taken here to mean "native in the UK" not necessarily in VC 72. *Archaeophytes are alien species known or suspected to have been introduced before AD 1500, whereas neophytes are more recent introductions (Preston et al. 2002).

Exclusions

Records which appear or are known to refer to planted specimens have been excluded.

Rare hybrids have generally been excluded as their distribution is inadequately known in the vice-county at present. Some have had more attention and their listing may stimulate further attention on them.

The hybrids that have been included fulfil the following criteria as used by the JNCC for inclusion in the Red List (Cheffings & Farrell 2005).

a) The hybrid must be between native parents (or parents that were once native to Britain)

- b) The hybrid is not a short-lived annual
- c) The hybrid is not a single occurrence of a long-lived individual
- d) The hybrid reproduces vegetatively, producing long-lived colonies
- e) The hybrid is not regularly present as part of a hybrid swarm between similar parents.

Most microspecies of *Hieracium*, *Taraxacum* and *Rubus* are omitted because they are not adequately recorded.

Confidentiality

Restriction of access to rare plant records is an issue that has caused much debate over the years. If detailed locations are given, plants may be at risk from collectors or even from those who simply wish to photograph them but may damage plants by trampling. On the other hand, many more are at risk from neglect of habitat or potential development and if their locations are unknown their conservation becomes more difficult if not impossible. In general the policy in this Register is to give the fullest information. In three cases (*Ajuga pyramidalis*, *Saxifraga nivalis* and *Woodsia ilvensis*) detailed locations have not been given. Full resolution information is available from the author to those who have a genuine need for it.

All users of this Register are requested to respect the information provided, and to note that rare and scarce plants may grow on private property. Many are also found on SSSIs and other areas of conservation where visitor pressure can be an issue. National and local conservation organisations are usually only too pleased to show visitors plants of interest if contacted in advance.

The Records

For each species, the latest records are provided for each site. This has the effect of making the records of the author the most frequent though his records are usually updating earlier recording by previous vice county recorders.

The smallest site definition used is a monad (1km x 1km). This means that where a species is present in several locations in a hectad (10km x 10km) its latest record in each monad will be listed. Where there is more than one record for a taxon in the monad only the latest date for this is listed. Where possible a site or location name are given and a more detailed grid reference. Recording in recent years in Dumfriesshire has been based on the tetrad (2km x 2km). There are 25 of these per hectad and it makes mapping the distribution of the wild plants feasible in a county with few other active recorders. The tetrads are given a standard letter as shown below. Hence the record for **Aethusa cynapium** at Stidriggs Wood is in tetrad NY09U. This means it is in the north east of the NY09 hectad.

The arrangement of tetrads in each hectad.

8	Е	J	Р	U	Z
6	D	ı	N	Т	Υ
4	С	Н	M	S	X
2	В	G	L	R	W
0	Α	F	K	Q	V
	0	2	4	6	8

It should be noted that the tetrad is usually given a name that refers to a geographic feature in the square. However where possible the more precise grid ref should be looked at to avoid assuming a misleading location. For example *Imperatoria ostruthium* is given a record for Coatsgate quarry (tetrad NTOOS). The detailed grid ref shows that the plant is not in the quarry but on a road side elsewhere in the tetrad.

Ultimately the objective should be to have 6 or 8 figure grid reference for all occurrences of these species so there is much more recording to do!.

Records held by the BSBI at 31st December 2015 have been included. Updates will be made periodically.

Historical records are included where they provide sufficient detail. The Flora of Dumfriesshire including part of the Stewartry of Kircudbrightshire, G.F. Scott-Eliott 1896 is the only other publication that provides site details for the wild plants found in the whole County. It provides the key reference used to evidence first published records. A number of sources were used in its collation and some of these were earlier publications and some direct individual records. I have tried to indicate which and give the author. In some cases records in The Flora remain the latest for that taxon at a particular location. Experience suggests that some of these might remain as extant populations in the original sites. This is because Dumfriesshire is a relatively poorly recorded vice county and many old sites may not have been revisited in the 100 or so years since The Flora was written. Also while there have been major changes in habitat through agricultural improvements post war and the planting of conifer plantations especially from the 1960s many areas retain elements of the habitat that would have been present in the nineteenth century. Therefore where there is sufficient detail on a location these historical records have been used in the register.

Additional records at the 10 km scale but without more detailed location details have been included as a footnote with date where specified. **Where a specific recorder is named**

against these they are in bold as an indication of greater certainty.

Records within tables are sorted by hectad (10 km square). The vice county is intercepted by 4 100km squares so records are always sorted in the order NS, NT, NX, NY. These are located in the NW, NE, SW and SE of the vice county respectively.

Recently, most rare and scare species have been recorded at 10 m resolution. Site names are given to assist in providing an idea of location. Recorder names are provided where known. Full information on the locations of all species and sources is available from the author.

Notes about the species

Status of species nationally

General notes of the species is provided to give the context of its national standing and habitats. These mainly come from the Online Atlas of the British and Irish Flora.

Status of species locally

A brief note is added by the author of the first recorded occurrence of the species in Dumfriesshire where known. Most of this information comes from **The Flora of Dumfriesshire including part of the Stewartry of Kircudbrightshire, G.F. Scott-Eliott 1896**. In most cases there is also a note of how the species is doing locally today.

A list of species recorded but currently thought to be extinct in Dumfriesshire is given in Annex 1.

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The Species Accounts

Aethusa cynapium L.

Fools Parsley

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

An annual native of hedge banks, waste places, arable fields and other cultivated ground. Declining in N. & W. Britain, and in Ireland, although the reasons for these losses are unclear.

In Dumfriesshire this species was first recorded by Dr. Davidson in 1891 at Nith Mills Sanquhar. It is infrequently encountered and most records are in and around towns where it might be more frequent in gardens.

Site	Gridref	Date	Recorder
Moffat	NT0905	1979	Jones, Mrs
Keir, river bank	NX862934	23/07/1999	Miles, C.J.
Dumfries	NX995758	04/06/1987	Martin, M.E.R.
Dumfries	NX975757	08/07/1987	Martin, M.E.R.
Dumfries	NX974760	04/12/1987	Martin, M.E.R.
Amisfield	NX999826	1991	Martin, M.E.R.
Amisfield	NY001826	02/08/1981	Martin, M.E.R.
Torthorwald	NY025780	26/07/1982	Martin, M.E.R.
Lochmaben	NY08W	28/06/2004	Miles, C.J.
Stidriggs Wood	NY09U	07/07/2013	Miles, C.J.

Also recorded from NS71 (1891), NY39

Agrimonia eupatoria L.

Agrimony

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Not Scarce, declining.

A perennial herb of basic and neutral soils, occurring in hedge banks, on woodland margins and rides, in field-borders and open grassland, on roadsides and railway banks, and sometimes in waste places. Nationally, this species appears to be declining slightly. Eurosiberian southern temperate element; widely naturalised outside its native range. Can be confused with the next species.

First record is listed by P. Gray in 1842. It is occasional on road verges, steep banks and rough grassland where tall herbs escape heavy grazing.

Site	Gridref	Date	Recorder
Bass Burn	NX89	23/07/1999	Miles, C.J.
Kinmount	NY16P	20/07/2008	Miles, C.J.

Kirkton railway cuttings	NY1383	Aug-98	Davidson, A., D.
The Haggs, Ecclefechan	NY1874	08/08/1979	Martin, M.E.R.
Macmaw	NY180944	13/07/1988	NCC woodland survey
Lochmaben Stone	NY36C	08/092007	Miles, C.J.
Rashiel Track and Ringens Well	NY38W	19/07/2003	Miles, C. and White, A.
Cronks Bank	NY3983	19/07/2003	Farrell, L. Stille, S.
Penton Linns	NY4377	17/08/1997	Miles, C.J.

Also recorded from NS81, NT00 (1896), NT01 (1896), NY28

Agrimonia procera Wallr.

Fragrant Agrimony

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Scarce, declining.

An erect perennial herb found in hedgerows, woodland margins and roadside verges, generally on soils which are neither strongly calcareous nor strongly acidic. This taxon has been much confused in the past with *A. eupatoria* var. *sepium*, which can also be glandular and aromatic. The overall range of this species is stable. European temperate element.

Not recorded at the time of The Flora so H. Milne Redhead's record from 1959 may be the earliest. Occasional on road verges, steep banks and rough grassland where tall herbs escape heavy grazing but less frequent than *A. eupatoria*.

Site	Gridref	Date	Recorder
Auchenhessnane, nr	NX803965	20/07/1978	Martin, J.D.S.
Morton Castle	NX89Z	30/08/2015	Miles, C.J.
Kelhead	NY1469	23/07/1975	Martin, M.E.R.; Martin, J.D.S.
Balgray, Dryfe Water	NY1486	12/08/1977	Martin, J.D.S.
Hoddam, woodland	NY17	05/04/1988	Martin, M.E.R.
The Hewk	NY18P	11/08/2013	Miles, C.J.

Also recorded from NY27 (1959)

Ajuga pyramidalis L.

Pyramidal Bugle

National Status: Scarce, Vulnerable. Status in Dumfriesshire: Rare.

A native perennial herb of free-draining slopes, rock crevices and shallow peat in open heathland and grassland overlying moderately acidic, or occasionally neutral or basic, soils. This species has been found in many new sites in the last half century, but conversely, some sites have apparently been lost through more intensive grazing. European boreal montane element.

First recorded in Blacks Hope in Dumfriesshire by J.T. Johnstone in 1888. A small population survives in the same location – detailed grid ref withheld.

Site	Gridref	Date	Recorder
Blacks Hope	NT11	24/05/2007	Waddell, J.

Alchemilla filicaulis subsp. filicaulis Buser

Slender Lady's Mantle

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A perennial apomict of calcareous or neutral grassland and grass-heath, found in lowland pasture, on hill-slopes, on herb-rich banks, and in flushed areas; also on rock outcrops, and mountain ledges of basic rock. From sea level in Orkney and Shetland to 975 m on Beinn a` Chaoruinn (Westerness). Nationally its distribution seems stable although it is probably under-recorded in some areas. European boreal montane element.

First record may be M. Bradshaw above Corehead in 1956. In Dumfriesshire it is infrequent compared to A. filicaulis subsp. vestita.

Site	Gridref	Date	Recorder
Crawick	NS779113	22/07/1988	Martin, M.E.R.
Lochan Burn	NT01W	05/07/2004	Braithwaite, M.E.; Gaskell, L.W.
Scawd Fell	NT10L	24/08/2013	Miles, C.J.
Carrifran	NT11	28/06/1998	Dixon, C.
Dalmacallan Hill	NX78	05/08/1988	Martin, M.E.R.
Castramon Hill and Moor	NX7883	26/07/2004	Miles, C.J.

Alchemilla glomerulans

Clustered Lady's Mantle

National Status: Scarce, Endangered.

Status in Dumfriesshire: Rare.

A perennial herb, typically found in ungrazed or lightly-grazed base-poor grassy habitats in the C. and N. Scottish mountains; a depauperate form grows in heavily-grazed flushes, and screes below cliffs. In Teesdale and Craven it occurs on roadsides and in species-rich hay meadows. The current distribution of this critical species is unclear, especially in Scotland, but there has probably been little change overall.

First recorded in 2013 by Jeremy Roberts. He saw it when examining the more luxuriant growth of plants within a fenced enclosure on the GMT NTS property. The discovery following release from grazing pressure suggests it could turn up in other locations.

Site	Gridref	Date	Recorder
White Coombe monad			
(NT1615)	NT16801551	22/06/2014	Roberts, J., Brown, P., Miles C.

Alchemilla wichurae (Buser.) Stefansson.

Rock Lady's Mantle

National Status: Scarce, Endangered. Status in Dumfriesshire: Scarce.

Native perennial growing in a variety of grassy and rocky habitats. Nationally its population appears to be stable but it may be recently under-recorded.

First recorded by E.F. Linton in 1894 from the Midlaw Burn. It is still there and now recorded more widely in the Moffat Hills. Not always easy to distinguish from *A. glabra* which is the most common *Alchemilla* in the Hills often growing with *A. wichurae*.

Site	Gridref	Date	Recorder
Moffat Hills SSSI, Firthhope	NT15221452	10/06/2004	Rae. D.A.
Burn			
White Coombe monad(NT1615)	NT16791544	22/06/2014	Roberts, J., Brown, P., Miles, C.
Moffat Hills SSSI, Midlaw Linn	NT16121622	02/07/2004	Rae. D.A.
Moffat Hills SSSI, Gray Mare's	NT18391484	28/06/2004	Rae. D.A.
Tail			

Allium vineale L. Wild Onion

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Not scarce, declining.

A bulbous native perennial herb of dry, neutral or calcareous soils, generally occurring in summer-dry grasslands, hedgerows, roadsides and cultivated ground, and formerly a serious weed of cereal crops. European temperate element; widely naturalised outside its native range.

First recorded in Dumfriesshire by J. Fingland in 1887 at Torduff Point. It is most frequent close to the coast at the limit of or just above the highest tides in tall vegetation.

Site	Gridref	Date	Recorder
Craigdarroch Water at Moniaive	NX77659081	04/08/2005	Warren. V
Kirkton (NX98Q)	NX96448042	14/09/2013	Miles, C.J.
Caerlaverock East park	NY06M	06/07/2014	Miles, C.J.
Riddingdyke	NY16H	10/07/2009	Miles, C.J.
Annan Waterfoot	NY16X	28/08/2008	Miles, C.J.
Dornock south	NY26H	07/06/2009	Miles, C.J.

Also recorded in NY29

Alopecurus magellanica Lam.

Alpine Foxtail

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A shortly rhizomatous perennial herb, found in oligotrophic springs and flushes, or on their borders, often associated with late snow-beds. It occurs on a wide range of acidic or slightly basic rocks. It is an inconspicuous grass, especially as it is shy-flowering and any inflorescences produced are often grazed off. Circumpolar arctic montane element.

First recorded in Dumfriesshire by D.A.R. Ratcliffe in 1956 on the north slope of White Coombe. It has now been found in a few other places in the Moffat Hills where it generally grows above 700m in flushed ground. It has been more obvious in places protected from grazing like Carrifran, where it flowers more readily.

Site	Gridref	Date	Recorder
Carrifran (NT11M)	NT1557014751	10/07/2010	Miles, C.J.
Moffat Hills SSSI, White Coomb	NT16581547	10/06/2004	Rae. D.A.
Mid Craig	NT16041629	08/08/2015	Miles, C.J.

Ammophila arenaria (L.) Link

Marram

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A native rhizomatous perennial herb of coastal sand dunes. *A. arenaria* is an important species in the stabilisation of mobile dunes and blow-outs, and is widely planted as a sand binder. Inland, it is a rare casual, though several attempts have been made in recent years to establish it on inland golf courses. Lowland. European southern temperate element; widely naturalised outside its native range.

Recorded in Dumfriesshire by Dr. Burgess in 1789 in the Newbie – Powfoot area where it remains in small quantity at the back of the shore. There is limited habitat suitable to this species.

Site	Gridref	Date	Recorder
Caerlaverock	NY0265	1975	
Powfoot	NY16M	12/07/2009	Miles, C.J.
Newbiebarns	NY16S	09/07/2012	Miles, C.J.

Anagallis arvensis subsp. arvensis L.

Scarlet Pimpernel

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

There have been losses in the north of its range, but it is difficult to say when they occurred. The native subsp. *arvensis* occurs throughout the range of the species. Eurosiberian southern temperate element, but widely naturalised so that distribution is now Circumpolar southern temperate.

It was first listed for Dumfriesshire by P. Gray in 1850 at Southwick (now in Kircudbrightshire) and in several other localities. It is now an infrequent plant of disturbed ground, in arable or ruderal situations and along the shore.

Site Gridref	Date F	Recorder
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Craigielands, Beattock	NT076015	24/07/1984	McKean, G.S.
Moniaive	NX7890	11/10/1973	Rae, Miss
Powfoot Village monad	NY1465	23/05/2015	Miles, C.J.
Dumfries	NX980758	15/06/1988	Martin, M.E.R.
Newbiebarns	NY16S	09/07/2012	Miles, C.J.
Balnagask, Lockerbie	NY1381	1987	Martin, M.E.R.
Eastriggs Ordnance depot	NY260650	24/07/2002	Miles, C.J., Galley, J.
Lochmaben Stone	NY36C	08/09/2007	Miles, C.J.

Also recorded in NY17 (1959), NY38 (1955),

Anchusa arvensis (L.) M. Bieb

Bugloss

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

This archaeophyte annual weed is mostly found nationally on well-drained soils in arable fields, but it also occurs near the sea on sandy heaths, in disturbed dunes and on waste ground. The main cause of loss nationally has been agricultural intensification, including the increased use of herbicides. Eurosiberian temperate distribution; it is widely naturalised outside this range.

Known in Dumfriesshire since seen by Dr. Gilchrist in 1862 and by a Miss Aitken in the Cummertrees area sometime before 1896. This has never been widespread. It is a very infrequent annual of sandy soil in arable fields in lower Annandale.

Site	Gridref	Date	Recorder
Ladyhall, Ruthwell	NY06	1885	Fingland, J.
Dalton	NY112743	25/06/1978	Martin, J.D.S.
Powfoot	NY1365	25/06/1978	Martin, M.E.R.
Cummertrees	NY136660	04/10/2009	Miles, C.J.

Andromeda polifolia L.

Bog Rosemary

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Not Scarce, declining.

A native straggling dwarf shrub of moist to wet acidic peaty ground, most abundant in lowland raised bogs but with scattered occurrences on upland peats. Fruits seldom develop. Nationally its habitat has declined greatly in the last fifty years through drainage, peat extraction and afforestation. Circumpolar boreal montane element.

Known since 1789 when recorded by Rev. Dr. Burgess on the Solway Moss. It is still well distributed and sometimes plentiful on intact or modified raised or intermediate lowland bogs but vulnerable to drainage or shading by tree growth. In some locations it is now present as a very small population.

Site	Gridref	Date	Recorder
Heathhall	NX97Z	20/06/2008	Miles, C.J.

Racks Moss	NY02717082	02/06/2011	Waddell, J.
Longbridgemuir	NY046685	26/10/2012	Waddell, J., Clifton, B.
Racks Moss	NY07G	06/08/2011	Miles, C.J.
Hightae NR,Lochmaben	NY084803	1976	Martin, M.E.R
Spedlins Flow	NY08Y	24/07/2011	Miles, C.J.
Edwards Rig	NY09T	07/07/2013	Miles, C.J.
Lochwood	NY09Y	07/07/2013	Miles, C.J.
Priestside Flow	NY16H	12/07/1992	Darke, H. Pringle, E.
Priestside Flow	NY16I	12/07/1992	Darke, H. Pringle, E.
Kelhead Flow	NY1470	05/09/1999	Miles, C.J.
Creca Moss	NY225714	1989	Fleming, L.V.
Raeburn Flow	NY27W	17/06/2007	Miles, C.J.
Branteth Flow	NY2874	1945	Barrett, H.
Gowd Muir	NY28V	11/04/1968	Corner, R.W.M.
Tanlawhill (NY29F)	NY23359013	21-Jun-14	Miles, C.J.
Gillshaw Flow	NY273728	1989	Fleming, L.V.
Solwaybank,SE of	NY316762	1988	Fleming, L.V.
Cowgarth Flow	NY324716	1989	Fleming, L.V.
Greenwrae Flowe	NY37G	14/08/2011	Miles, C.J.
Barnglieshead	NY37J	13/07/2008	Miles, C.J.
Hagg Hill	NY37U	04/08/2013	Miles, C.J.
Bloch Flow+Hope Burn+Back			
Bu.	NY38A	19/07/2003	White, A., Miles, C.J.
Cockplay	NY38K	04/08/2013	Miles, C.J.
Warb Law	NY38L	27/05/2012	Miles, C.J.
Old Irvine	NY38Q	04/08/2013	Miles, C.J.
Tarrasfoot Hill (NY38V)	NY39308109	14/06/2014	Miles, C.J., Miles A.J.
Terrona Hill, Little Tarras Water	NY393867	01/05/1976	Ratcliffe, D.A.
Langholm, NE of	NY418845	1990	Ellis, D.

Also recorded in **NS71** (1957), **NY18** (1968), NY26,

Antennaria dioica (L.) Gaert

Mountain Everlasting

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Not scarce, declining.

A shortly stoloniferous perennial herb of thin, basic to mildly acidic soils. Its lowland habitats include chalk and limestone grassland, heathland, coastal cliff-tops, sand dunes and machair. In upland areas, habitats include rock ledges, crags, streamsides, screes, well-drained acidic grasslands, heathy pastures and dwarf-shrub heaths. Although not scarce the species has declined over the past 50 years. Most losses are due to the ploughing of its habitats, or to intensification of grassland management. It is now a mostly coastal and upland species in Britain. Eurasian boreo temperate element.

Listed from Dumfriesshire by P. Gray in 1842 when it was said to be common in dry pastures above 500 feet. This is most frequently found on inland rocks or short grassland on shallow

soil beside rivers and burns. It is never abundant.

Site	Gridref	Date	Recorder
Corserig Hill NS70E (NS70E)	NS7063408952	30/07/2011	Miles, C.J.
Chanlockfoot	NS70V	25/06/2009	Miles, C.J.
Glendyne, Sanquhar	NS8109	1878	McGlashan, R.D.
Hamarty Hill	NS90W	28/06/2014	Miles, C.J.
Raecleugh, Evan Water	NT0311	04/09/1987	Rich, T.C.G.
Midlaw	NT11	17/06/1989	Corner, R.W.M.
Redgill Craig monad (NT1312)	NT13451285	16/08/2015	Miles, C.J.
Mitchell Hill	NT20E	13/07/2012	Miles, C.J.
The Kaim	NT20I	13/07/2012	Miles, C.J.
Garwald Water	NT2300	12/08/1977	Martin, M.E.R.
Benbuie	NX710962	03/07/1981	Todd, S., Rogers, C.
Druid Hill NX89E	NX89E	24/05/2009	Miles, C.J.
Whitestanes Moor (NX98U)	NX97228888	20/05/2012	Miles, C.J.
Racks Moss	NY03497370	02/06/2011	Waddell, J.

Also recorded in NS81, NT00 (1896),

Anthyllis vulneraria Ssp. vulneraria L.

Kidney Vetch

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A perennial herb of rock outcrops and open turf on south facing slopes, on free-draining neutral to base-rich, often calcareous, soils. On the coast it is found on sea-cliffs, shingle and sand dunes. It is increasing as an alien on roadsides.

Numerous records are given in The Flora, the earliest from 1881 by Miss F.A. Hope around Moffat. It has been less frequently encountered in recent years. Records to date rarely distinguish subspecies so these are all presumed native. Recent use of seed in landscaping has introduced non native ssp. which are not included in this list where this seems obvious (eg new road verges).

Site	Gridref	Date	Recorder
Hallscaur	NS70Q	25/06/2009	Miles, C.J.
VC72 Dumfriesshire	NS7700	14/08/1975	Stewart, N.F.
Craigieburn (NT10C)	NT1070904272	19/06/2011	Miles, C.J.
Shieldhill Bridge, River Ae	NY034855	10/07/1980	Martin, M.E.R
Lochmaben	NY0882	Aug-73	Martin, J.D.S.
Kirkton Railway cuttings	NY1383	Aug-98	Davidson, D.
Rigg	NY286668	26/08/1981	Martin, M.E.R
Black Esk Bridge	NY29K	04/08/2008	Miles, C.J.
Airswood Hill	NY26119197	13/09/2015	Miles, C.J.

Also recorded in NY38 (1896)

Apium inundatum (L.) Reichenb.fil.

Lesser Marshwort

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Scarce, declining.

Native perennial herb, favouring shallow water sites, both still and slow moving, together with those which periodically dry out such as the edges of pools and dune slacks. Although widely distributed over the UK, it appears to be in substantial decline as a result of drainage and the eutrophication of its habitats.

It was first recorded by J. Singer in 1843 in Lochmaben and it is still present around the Upper Mill Loch. Infrequent in the flood zone of lochs or flushed areas

Site	Gridref	Date	Recorder
Big Morton Hill	NX78J	16/07/2004	Miles, C.J.
Shaw Wood, Maxwelton	NX820890	29/06/1985	Martin, M.E.R.
Capenoch	NX89	23/07/1999	Miles, C.J.
Jerico Loch	NX995805	23/09/1996	Lassiere, O.L. Dines, C.
Meikleholm Loch.	NY0389	20/07/2003	Miles, C.J., Terry, P., Stile, S.
Courancehill Loch	NY044912	25/09/1996	Lassiere, O.L. Dines, C.
Lochmaben, Upper Loch	NY071835	13/07/2014	Miles, C.J.
Marjorie Sike and Brummel	NY090830	23/05/2004	Miles, C.J.
Wood			
Eskrigg Reserve, Lockerbie	NY1280	01/08/1996	Kay, G., Milner, B., Dines, T.

Apium nodiflorum (L.) Lag.

Fools Water-cress

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A perennial herb, found in shallow water in streams, ditches, swamps and marshes, and on seasonally exposed mud at the edges of ponds, lakes, rivers and canals, sometimes scrambling into nearby vegetation. It is characteristic of nutrient-enriched sites. The distribution of this species is stable. Eurosiberian southern temperate element; widely naturalised outside its native range.

Though first recorded in 1890 at Earshaig by J.T. Johnstone it is very infrequently recorded in Dumfriesshire where it appears close to its northern limit inland. Old records might still be refound. It might be confused with when vegetative and as both are scarce they need careful consideration.

Site	Gridref	Date	Recorder
Earshaig Lake	NT0501	1890	Johnstone, J.T.
Loch Urr	NX760845	10/09/1996	Day, J. Willby, N.J.
Bridgeknowes Loch	NX85779947	12/07/2015	Miles, C.J.
Dumfries	NX97	01/08/1840	Cruickshank, J.
Caerlaverock NNR, The			
Flooders(West)	NY027652	11/08/1970	

Aquilegia vulgaris L.

Columbine

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Rare.

Native populations of this perennial are found on calcareous soil over limestone rocks in England and Wales. It typically grows in woodland glades and open scrub, by woodland rides and stream sides, in damp grassland and fen, and on scree slopes. Garden escapes can be naturalised in quarries, on roadsides, railway banks and old walls. *A. vulgaris* has increased since the 1962 *Atlas*, presumably because of the increasing frequency of garden escapes. The native distribution is now totally obscured.

The earliest record is by Dr. Singer from the Garpol Glen in 1843. It was also recorded in the Auchencat Burn by J.T. Johnstone in The Flora. Other locations in The Flora were regarded as escapes. It is now found regularly but in all but the two early sites it is regarded as of garden origin. In the two early sites it persists in habitat where it is regarded as native and the flowers match the native blue colouration.

Site	Gridref	Date	Recorder
Garpol Glen	NT067033	06/07/1976	Pankhurst, R.J.
Hartfell Spa, Watch Burn	NT01V	05/09/2015	Miles, C.J.

Arctostaphylos uva-ursi (L.) Spreng.

Bearberry

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Rare.

This procumbent low shrub is found on upland heaths and moorlands, often over well-drained gravelly or rocky ground, and on ravine sides. It sometimes grows in heathy grasslands on limestone. Circumpolar boreal montane element.

It was recorded in the Moffat Hills by Dr. Singer in 1843. It is currently known in only one area where there are several small colonies on steep rock faces.

Site	Gridref	Date	Recorder
Deacon Snout	NT 1836 1510	18/04/2015	Miles, C.J.

Asplenium trichomanes subsp. trichomanes L.

Maidenhair Spleenwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

Restricted to acidic, siliceous substrates. It is found rooted into crevices in rock outcrops, and on screes, mine waste and dry-stone walls, particularly in oceanic upland areas. This taxon did not become widely known until mapped in 1978. It has been much confused with, and is still over-recorded for, forms of the nearly ubiquitous subsp.*quadrivalens*. Circumpolar temperate element.

Usually on acidic rocks. Confusion with the commoner subsp. probably means it is under recorded in Dumfriesshire.

Site	Gridref	Date	Recorder
Hallscaur NS70Q	NS778014	25/06/2009	Miles, C.J.
Corehead tetrad R	NT01R	08/07/2010	Miles, C.J.
Tweedhope Burn.	NT01W	05/07/2004	Braithwaite, M.E. Gaskell, L.W.
Beattock, Evan Water	NT0702	17/02/1981	Silverside, A.J.
Firthhope Rig	NT11M	25/07/2009	Miles, C.J.
Grennan Hill	NX8295	17/06/1978	Stirling, A. McG.
Thorniethwaite Glen	NY065794	02/08/1981	Martin, M.E.R.

Also recorded in NY08 (1962)

Asplenium viride Huds.

Green Spleenwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

An evergreen fern of moist, sheltered crevices in basic rocks, and very rarely also on mortared walls. It is occasionally a colonist of old metal mine workings. Circumpolar boreal montane element, with a disjunct distribution.

This has been known in Dumfriesshire since 1848 when listed by W. Stevens at the Grey Mare's Tail. Scarce and normally only found in the hills under sheltered rock overhangs.

Site	Gridref	Date	Recorder
Dinabid Linn, Dalveen	NS8908	07/07/1984	McCosh, D.J.
Old Manse Kirkpatrick-Juxta -	NT00	08/07/1996	Martin, M.E.R.
outbuildings			
Selcoth Burn	NT10N	28/08/2011	Miles, C.J.
Loch Fell NT10S	NT10S	13/08/2007	Miles, C.J.
Moffat Hills SSSI, Blackhope,	NT118132	20/06/2008	Waddell, J.
Hartfell Craig			
Nether Coombe Craig	NT11F	10/06/2007	Miles, C.J.
Falcon Craig (NT11G)	NT1258112529	03/08/2010	Miles, C.J.
Redgill Crag	NT1337512880	01/07/2007	Jannink, M. Stanley, P.D.
Moffat Hills SSSI, Carrifran,	NT14411381	05/09/2008	Waddell, J. Holme, R.
Raven Craig (gully)			
Mitchell Hill	NT223087	23/04/97	Corner, R.W.M., Ratcliffe, D.A.
Black Cove	NY40169207	12/07/2014	Miles, C.J.
Birkshaw Sike	NY40719308	12/07/2014	Miles, C.J.

Also recorded in NS71 (1959), NS90 (1958), NY08, NY48 (1948)

Atriplex littoralis L.

Grass-leaved Orache

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

An erect annual of open, usually sandy or silty places near the sea. Often forming dense stands along saltmarsh drift-lines, estuarine banks and sea-walls, and on waste ground around docks. It also grows in saline areas inland, and as a colonist by salt-treated roads. Lowland. Circumpolar temperate element, with a disjunct distribution.

This appears to have only been recorded in Dumfriesshire since the 1990s. Restricted to the shore along the Solway coast. Generally on sandy muddy substrates towards the upper tidal limit.

Site	Gridref	Date	Recorder
Castle Wood NY06H	NY06H	16/07/2008	Miles, C.J, Wilson, B., Kennedy, D.
Caerlaverock East Park	NY06M	06/072014	Miles, C.J.
Powhillon	NY06T	18/07/2009	Miles, C.J.
Riddingdyke	NY16H	10/07/2009	Miles, C.J.
Newbiebarns	NY16S	09/07/2012	Miles, C.J.
Eastriggs Depot	NY26S	11/07/2012	Miles, C.J.
Baurch	NY26X	26/07/2014	Miles, C.J.

Berberis vulgaris ${\sf L}.$

Barberry

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A deciduous shrub found in hedgerows and coppices, and on banks, cliffs and waste ground. Generally lowland. It might be native in England and Wales, but it was cultivated in medieval times and later widely planted for hedging. European temperate element; widely naturalised outside its native range.

First listed from Lincluden, (probably now Kircudbrightshire), in 1842 by P. Gray. It is very infrequent in Dumfriesshire, possibly native in hedgerows. Said to be common in Eskdale in The Flora.

Site	Gridref	Date	Recorder
Calside	NX983752	06/08/1983	Martin, M.E.R.
Whinny Rig, opp. Tinwald			
Downs	NY0079	10/05/1974	Martin, M.E.R.
Hitchill, Cummertrees	NY1467	22/10/1977	Martin, M.E.R.
Sprinkell Estate	NY2575	21/05/1996	Miles, C.J.

Also recorded in NS71 (1896), NT00 (1896), NY06 (1996)

Berula erecta (Huds.) Coville

Lesser Water Parsnip

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

This native stoloniferous perennial occurs as a submerged aquatic in rivers and streams, and as an emergent species at the edges of lakes, ponds, rivers, ditches and canals, and in marshes. It is also found on seasonally-flooded wet ground, and usually roots into fine silt or mud. Vegetative spread is by short-lived stolons or rhizomes, but little is known of the frequency of reproduction by seed. Nationally the species may be declining, probably caused by drainage and habitat destruction. European temperate element; also in C. Asia and N. America.

It was recorded in 1789 by Dr. Burgess between Duncow and Kirkmahoe. Also recorded in The Flora at Lochmaben by Dr. Singer. It occurs where the water table is usually above the surface. Perhaps commoner near the coast.

Site	Gridref	Date	Recorder
Loch Urr,Lochurr Lane	NX7684	07/06/1989	Martin, M.E.R.
Morton Castle	NX89Z	29/05/2011	Miles, C.J.
Kirkton,nr The Lake	NX971821	07/07/1983	Martin, M.E.R.
Shieldhill Bridge, River Ae	NY033856	20/09/1973	Martin, J.D.S.
Castle Wood NY06H	NY06H	16/07/2008	Miles, C.J, Wilson, B., Kennedy, D.
Caerlaverock East Park	NY06M	06/072014	Miles, C.J.
Murder Loch	NY0285	-1992	Milne-Redhead, H.
Upper Loch	NY0783	13/08/1977	Newbold, C.
Dornock south NY26H	NY26H	07/06/2009	Miles, C.J.

Beta vulgaris subsp. maritima (L.) Archangeli.

Sea Beet

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

Native perennial herb found in many coastal habitats from the strand line to cliffs. It seems to favour sites which are rich in nutrients (for example cliff ledges where guano has been deposited). Rarely found inland. Nationally it is common round the coast as far north as Ayrshire in the west and Yorkshire in the east, with outlying stations further north.

Only recorded twice, the first time in 1996. On sandy or shingle shorelines where it may colonise by seed washed in from Cumbria or Galloway.

Site	Gridref	Date	Recorder
Annan Waterfoot NY16X	NY16X	28/08/2008	Miles, C.J.

Bidens cernua L.

Nodding Bur-marigold

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Scarce, declining.

An annual, growing on a wide range of damp or wet substrates on the margins of slow-flowing rivers and streams, by ponds and meres, often in places subject to winter flooding; also in ditches and marshes. Although not scarce the species has declined over the last 70 years, mainly due to drainage and habitat destruction. Circumpolar temperate element.

In Dumfriesshire it is scarce in fens, marshes and river backwaters but persistent. First known at Lochmaben where it was listed by Dr. Singer in 1863.

Site	Gridref	Date	Recorder
Kirkbog (NX89R)	NX87939240	30/08/2014	Miles, C.J, Miles, A,J.
Morton Loch	NX891992	26/08/1996	Willby, N.J. Lassiere, O.L.
Jericho Loch	NX996804	05/08/1984	Gerdes, B.; Cochrane, P.
Caerlaverock NNR	NY06	1964	Crompton, G.
Lochar water	NY0080	15/08/2004	Miles, C.J.
			Stewart, N.F. Turner,
Mill Loch,Lochmaben	NY0783	13/07/2004	L. Carvalho, L.
Hightae NR,Lochmaben	NY084803	1976	Martin, M.E.R.
Castle Loch	NY088816	-1999	Martin, M.E.R.
Jardine Hall	NY101872	05/09/1996	Willby, N.J. Lassiere, O.L.

Also recorded in NY07,

Bidens triparta L.

Trifid Bur-marigold

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Scarce, declining.

An annual of nutrient-rich mud or gravel by ponds, occurring in wet pits, by slow rivers and streams, often in areas wet in winter but exposed in summer; also found in ditches, peat workings and other damp places. Nationally this species is decreasing; drainage, the infilling of ponds and ditches, and the canalisation of watercourses have all contributed to its decline. Eurasian temperate element; widely naturalised outside its native range.

In Dumfriesshire known from Castle Loch since 1837 where recorded by G.N. Lloyd. Found in seasonally flooded areas. Less frequent than *B. cernua*.

Site	Gridref	Date	Recorder
Castle Loch	NY088816	17/08/1959	Milne-Redhead, H.
Kirk Loch, Lochmaben	NY080821	07/08/1984	Martin, M.E.R.

Also known from NX89 and **NX98** (1957)

Blysmus compressus (L) Panz. ex Link

Flat Sedge

National Status: Not Scarce, Vulnerable. Status in Dumfriesshire: Rare, declining.

A rhizomatous perennial of open areas in marshes and fens, and in short, sedge-rich, damp grassland, calcareous flushes and stream borders which are subject to flooding. The species has suffered a severe decline throughout its range. Much of the decline has been due to

drainage, the loss of unimproved damp grasslands, falling water-tables, eutrophication and the cessation of grazing. European temperate element, with a continental distribution in W. Europe.

Never frequent in Dumfriesshire where first recorded in 1882 by Dr. F.W.Grierson at Glencaple. It occurs on the coast, though less frequently than *B. rufus* and in the Eskdale area around Bentpath where known since The Flora.

Site	Gridref	Date	Recorder
Caerlaverock NNR	NY022650	19/07/1963	Crompton, G.
Lower Stennies Water (NY39B)	NY30319273	09/09/2012	Miles, C.J.
Lower Stennies Water (NY39B)	NY31239337	09/09/2012	Miles, C.J.

Also recorded in NX96 (1882), NY16 (1975), NY26, NY29 (1896)

Blysmus rufus (Huds.) Link

Saltmarsh Flat Sedge

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Not Scarce, declining.

A rhizomatous perennial herb, found in sandy or gravelly wet runnels and depressions in saltmarshes, and in brackish ditches and dune-slacks. It also occurs on rocky shores, in freshwater seepages and beside streams where they debouch onto the beach. Nationally its distribution now appears to be generally stable. European boreal montane element; also in C. Asia and N. America.

Recorded in Dumfriesshire by Dr. F.W. Grierson at Glencaple in 1882 but confined to the saltmarsh along the Solway where it is probably still under recorded. It might be missed due to traditional merse grazing.

Site	Gridref	Date	Recorder
Glencaple	NX9968	13/06/1975	Martin, M.E.R.
Castle Wood	NY06H	16/07/2008	Miles, C.J, Wilson, B., Kennedy, D.
Caerlaverock NNR- Eastpark	NY05666518	11/06/2015	Miles, C.J.
Caerlaverock NNR	NY066660	11/08/1970	
Powfoot	NY16M	12/07/2009	Miles, C.J.
Dornock south	NY26H	07/06/2009	Miles, C.J.
Lochmaben Stone	NY36C	08/09/2007	Miles, C.J.

Botrychium lunaria (L.) Sw.

Moonwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A small fern, often occurring singly or in small populations. It prefers well-drained sites, usually with a high base-content, although it can occur on more acidic substrates. Habitats include meadows, pastures, open woodland, sand dunes and grassy rock ledges. It can also colonise slag heaps and quarry spoil. Probably declining nationally. Circumpolar boreo

temperate element.

First recorded at the Grey Mare's Tail by Dr. Balfour in 1856. It is sporadic and in small quantity on thin soils in hilly localities and on old mine spoil.

Site	Gridref	Date	Recorder
Crawick (NS71Q) old coal bing	NS76401154	16/06/2014	Miles, C.J.
Wanlockhead lead spoil	NS81	1996	Miles, C.J.
Black Knowe and Bills Cleuch	NT01W	22/08/2004	Miles, C.J.
Selcoth Burn (NT10N)	NT14200690	24/06/2012	Miles, C.J.
Selcoth Burn (NT10N)	NT1547406159	28/08/2011	Miles, C.J.
Moffat Hills SSSI, Blackhope,	NT118132	20/06/2008	Waddell, J.
Hartfell Craig			
Carrifran (NT11M)	NT1478514574	21/08/2010	Miles, C.J.
Midlaw Burn	NT1616	07/06/1991	Ellis, D.; McHaffie, H.
Rammerscales Hill	NY068774	11/06/1973	Martin, M.E.R.
Lochmaben	NY0783	20/06/1964	Nairn, S.
Heithatpark	NY183891	20/06/1973	Martin, M.E.R.

Also recorded in NY38 (1896)

Butomus umbellatus L.

Flowering-rush

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A submerged or emergent rhizomatous perennial which grows in calcareous, often eutrophic, water at the edges of rivers, lakes, canals, ditches and in swamps. It rarely sets seed but reproduces by lateral buds on the rhizome. Eurosiberian temperate element; widely naturalised outside its native range.

First recorded in 1981 by N. Holmes. It may not be native but seems persistent. It could have spread from Cumbrian populations.

Site	Gridref	Date	Recorder
R Annan,.5km lengths			
above+below 35194677	NY194677	11/07/1981	Holmes, N.T.H.
Kinmount NY16P	NY143684	20/07/2008	Miles, C.J.

Cakile maritima Scop.

Sea Rocket

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A native perennial herb often forming extensive stands in lakeside marshes and in carr. Nationally its main centres of distribution are in Norfolk, and the area northwest of the Wash.

Known from Dumfriesshire since 1886 on the Powfoot to Newbie section of shore. Seen on rare occasions and may recolonize sporadically.

Site	Gridref	Date	Recorder
Powfoot	NY1365	25/06/1978	Martin, J.D.S.
Newbiebarns	NY16S	09/07/2012	Miles, C.J.
Annan Waterfoot	NY1864	03/07/1977	Martin, J.D.S.

Calamagrostis canescens (F.H. Wigg) Roth.

Purple Small-reed

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A perennial herb of lakeside marshes, fen-meadows, tall-herb fens and *Alnus* or *Salix* carr, often in extremely species-rich vegetation and sometimes forming extensive stands. Generally lowland. Within its core range, succession and falling water tables may be reducing the extent of wetland habitats available for this species. Eurosiberian boreo temperate element, with a continental distribution in W. Europe.

Not recorded from Dumfriesshire in The Flora. The first record appears to be from M.E.R. Martin and L. Kungu on the old Kinnel Water course in 1987. It was still there in 2004.

Site	Gridref	Date	Recorder
River Annan and Kinnel water			
Old Course	NY097836	31/08/2004	Miles, C.J.
Lockerbie Curling Pond	NY125804	15/09/1987	Rae, J.

Callitriche platycarpa Kütz.

Various Leaved Water Starwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

Native. The species is widely under-recorded, and it is possible that it is the most abundant species of *Callitriche* in lowland Britain. It may be spreading in Britain because of eutrophication, as appears to have happened in Sweden. European temperate element.

Almost certainly under recorded in Dumfriesshire. Recent improvements in identifying this species will lead to more records that separate it from *C.stagnalis s.l.*

Site	Gridref	Date	Recorder
Cairn Water	NX88	12/07/1999	Miles, C.J.
Kirkton	NX98Q	14/09/2013	Miles, C.J.
Caerlaverock East Park	NY06M	06/07/2014	Miles, C.J.
R Annan,.5km lengths			
above+below 35102767	NY102767	11/07/1981	Holmes, N.T.H.

Calystegia soldanella (L.) R.Br.

Sea Bindweed

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

Native perennial herb of sand dunes, and sand and shingle beaches. Common around the coast of England, Wales and southern Scotland. Mediterranean-Atlantic element; widely naturalised outside its native range.

While recorded by G.F. Scott-Elliot in 1892 at Cummertrees and Gretna it has only been recorded once since. Like other shoreline species it seems likely to recur as it is well established along the Cumbrian shore.

Site	Gridref	Date	Recorder
Cummertrees, nr	NY16	1892	Scott - Elliot, G.F.
Dornock Brow to Torduff Point	NY26M	05/09/1996	Miles, C.J.

$Carduus\ crispus\ {\rm L}.$

Welted Thistle

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A biennial herb of woodland margins, ditch-banks, damp hedge bottoms, streamsides, tall grassland, roadsides, railway banks and waste places, especially on clay soils with a high nutrient status. Eurosiberian temperate element, but widely naturalised so that distribution is now Circumpolar temperate.

First record appears to be in Lochmaben by H. Milne-Redhead in 1969. It is rarely encountered. Found in weedy areas along back of shore or inland occasionally.

Site	Gridref	Date	Recorder
Racks	NY07	05/09/1999	Miles, C.J.
Castle Loch	NY088816	1999	Martin, M.E.R.
Dornock Brow to Torduff Point	NY26M	05/09/1996	Miles, C.J.

Carex acuta L. Slender Tufted-sedge

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A rhizomatous perennial of shallow water or wet ground at the edges of rivers, streams, canals, lakes and ponds, in swamps, ditches and unimproved flood meadows and in marshland. It usually grows in calcareous and mesotrophic or eutrophic conditions, in areas subject to frequent flooding. It is shade-tolerant and sometimes grows under riverside trees or in wet woodland. Lowland. The species has declined in many areas, principally because of drainage and canalisation of rivers and streams. Eurosiberian boreo temperate element.

A rarely encountered southern sedge that has been confused with the commoner C. acutiformis. This should be looked for carefully.

Site	Gridref	Date	Recorder
Stroanshalloch	NX79	05/08/1958	Milne-Redhead, H.
Kirkton	NX98Q	2005	McCleary, J.
Wamphray	NY19	1957	Milne-Redhead, E.; Wille, A.;
			Wille, J.

Carex aquatilis Wahlenb.

Water Sedge

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Occasional.

A morphologically variable, native rhizomatous perennial. In the lowlands, robust plants grow on river banks and the margins of lakes, mires and reed-swamps. In its upland sites, it is a shorter plant and often grows on deep, wet, gently sloping peat. Nationally it may remain overlooked in some areas. Circumpolar boreo arctic montane element; absent from mountains of C. Europe.

A northern sedge with records from 1886 at Kirkbog by Dr. Davidson. It may have been overlooked and is likely to be more extensive. It is occasional on the edge of muddy sections of the Nith, more obvious when out of reach of grazing stock. It appears stable in such places having maintained populations, e.g. at Kirkbog, for over 100 years.

Site	Gridref	Date	Recorder
Laigh Farm,R Nith below	NS6812	27/05/1976	Martin, M.E.R.
Glen Hall	NS68841304	31/05/2014	Miles, C.J.
Netherglenmucklock	NS71991235	26/07/2014	Miles, C.J.
South of Boatcroft	NX88748961	21/06/2015	Miles, C.J.
Kirkbog, River Nith	NX87939240	30/08/2014	Miles, C.J.

Also recorded in NX98 (1890)

Carex arenaria L. Sand Sedge

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A rhizomatous perennial herb of sandy habitats, where it can be a dominant plant of fixed dunes, dune-slacks, sandy flats and on tracksides or other ruderal habitats. Though predominantly coastal, it can be locally common on dunes and heaths inland. It can be a rapid coloniser, spreading by far-creeping rhizomes. It is occasionally found as an alien on railway clinker. The overall distribution of this species appears stable. European temperate element.

Reported between Powfoot and Newbie by G.F Scott-Eliott in The Flora. In a few places on sandy coasts.

Site	Gridref	Date	Recorder
East Park, Caerlaverock	NY0565	05/06/1989	Peberdy, K.J. Skimmings, P.
Powfoot NY16M	NY16M	12/07/2009	Miles, C.J.

Newbiebarns	NY16S	09/07/2012	Miles, C.J.
Torduff Point	NY26	1975	Martin, M.E.R.

Carex atrata L.

Black Alpine-sedge

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A perennial herb found on ungrazed faces and ledges of wet or dry calcareous cliffs. It grows in short vegetation or amongst tall herbs, or in dwarf *Salix* scrub. Populations are probably maintained by vegetative growth. Circumpolar boreo arctic montane element.

Recorded from a hill near Hartfell in 1848 by W. Stevens. The two known populations on rocky ledges are small and vulnerable to chance events.

Site	Gridref	Date	Recorder
Moffat Hills SSSI, Blackhope,			
Hartfell Craig	NT11891325	20/06/2008	Waddell, J.
Moffat Hills SSSI, Midlaw Linn	NT16131618	08/08/2015	Miles, C.J.

Carex capillaris L.

Hair Sedge

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A perennial herb of base-rich upland grasslands, particularly those flushed by calcareous springs, and moist limestone or mica-schist crags, slopes and ledges. Though it can tolerate some shading, it is generally found in open situations and short vegetation, often in species-rich communities. It is usually found at moderate or high altitudes. Nationally its population is stable. Circumpolar boreo arctic montane element.

Recorded from Hartfell in 1848 by W. Stevens. Two other Moffat Hills localities are mentioned in The Flora. Today only known from one station where the population is on rocky ledges but it is small and vulnerable to chance events.

Site	Gridref	Date	Recorder
Moffat Hills SSSI, Midlaw Linn	NT16121622	08/08/2015	Miles, C.J.

Carex diandra Schrank.

Lesser Tussock Sedge

National Status: Not Scarce, Near Threatened. Status in Dumfriesshire: Scarce, declining.

Native perennial sedge of peaty areas, able to tolerate both acidic soils and those which are flushed by calcareous springs. Also found in wet woods, fen carr and swamps. Nationally *C. diandra* has been lost as a result of drainage and scrub encroachment from many lowland

sites. Most losses occurred before 1930, but are still continuing in England. Circumpolar boreo temperate element.

Infrequently recorded in Dumfriesshire since 1882 where first recorded at Tynron by J. Shaw (as C. teretiuscula). It occurs in wet mires with some enrichment which have been the subject of much drainage activity hence its reduced occurrence.

Site	Gridref	Date	Recorder
Nether Black Law area	NS71J	04/06/1988	Noltie, H.J. McKean, D.R.
Crawick Water, S of Nether Cog	NS81	July/1999	Miles, C.J.
Backhill Moss	NS915012	08/08/1958	Milne-Redhead, H.
Thornhill	NX89	1882	Wallace, J.
Black Loch SSSI	NX992876	11/08/1988	Fleming, L.V.
Caerlaverock	NY0265	14/07/1839	Cruickshank, J.
Upper Loch (Lochmaben)	NY070833	10/08/1988	Fleming, L.V.
Perchhall Loch	NY110879	29/08/1988	Fleming, L.V.
Broomhillbank Hill (NY19F)	NY13129019	21/06/2014	Miles, C.J, Miles, A,J.
Wauchope School	NY3281	11/06/1988	Martin, M.E.R.
House+Grains Well			

Carex lasiocarpa Ehrh.

Slender Sedge

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Scarce, declining.

A rhizomatous perennial which grows in reed-swamps and other vegetation at the edges of lakes, pools and slow-flowing streams and rivers, and in flushes and wet hollows in fens; it can also colonise old peat workings and drainage channels. It generally occurs in nutrient-poor water, which may be base-rich or base-poor. Circumpolar boreal montane element.

First recorded from Sanquhar in 1886 By Rev. Dr. Davidson (as C. filiformis). Found on the edge of nutrient poor lochs and valley mires but as these are subject to drainage and enrichment it has been hard to find in recent years.

Site	Gridref	Date	Recorder
Sanquhar	NS70	1886	Davidson, A.
Loch Urr	NX760845	10/09/1996	Day, J. Willby, N.J.
Maxwelltown Loch	NX97	-1892	Cruikshank, J.
Blind Lochs	NY063838	27/06/1979	Martin, M.E.R.
Perchall Loch	NY110878	1988	Fleming, L.V.
Cronksbank	NY3983	19/07/2003	Farrell, L., Stile, S.

Carex limosa L. Bog Sedge

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A perennial herb of *Sphagnum* mires and the wet, peaty margins of pools, often growing in standing water. Most of its sites are acidic and oligotrophic and it tends to occur in areas subject to some mineral enrichment. Generally lowland and somewhat declining due to drainage, afforestation and, in Ireland, peat extraction. Circumpolar boreal montane element.

Recorded at Stroanshalloch in 1892 by J. Corrie but in very few other localities. Reduced by draining of the very wet mires it requires. Still survives at Stroanshalloch after 120 years.

Site	Gridref	Date	Recorder
Beattock Hill	NT057017	08/08/1954	Graham, R.A.
Stroanshalloch (NX79A)	NX7000290582	11/06/2011	Miles, C.J.

Carex magellanica Lam.

Tall Bog Sedge

National Status: Scarce, Least Concern. Status in Dumfriesshire: Scarce, declining.

A perennial of wet ground, pools and hummocks in *Sphagnum* bogs, or at the edges of gently sloping mires where there is slight lateral water movement; such sites often occur on watersheds. It generally occurs in open ground, but sometimes persists in carr. Circumpolar boreal montane element.

It was first listed from Morton Castle by W. Stevens in 1848. Many populations have not been seen in recent years. Reduced by drainage of it preferred habitat on peatland with moss lawns that have a slight movement of water.

Site	Gridref	Date	Recorder
Friarminnan	NS747193	11/06/1959	Milne-Redhead, H.
Earshaig	NT057021	15/06/1959	Milne-Redhead, H.
Lime Knowe, nr Moodlaw Loch	NT289070	04/09/1960	Milne-Redhead, H.
W. of Moodlaw Loch in forest ride	NT293074	21/09/1996	Corner, R.W.M.
Stroanshalloch Loch	NX699905	13/07/1970	David, R.W.
Loch Urr	NX7584	28/7/1887	Fingland, J.
Girrharrow	NX78Y	-1896	Corrie, J.
Dunesslin Moor, Mill Hill-Speddoch			
Hill	NX820814	13/07/1970	David, R.W.
Fleuchlarg, Glencairn	NX8587	27/6/1898	Playfair, D.T.
Beuchan Moor	NX8591	08/07/1976	Martin, J.D.S.
Black Loch	NX990874	08/08/1959	Milne-Redhead, H.
Hellshole Moss, N of Templand	NY08338787	00/08/2009	Miles, C.J.
Loch Rig, Eskdalemuir	NY23099882	04/09/2011	Miles, C.J.
Barnglieshead NY37J	NY332793	13/07/2008	Miles, C.J.

Carex oederi Retz

Small-fruited Yellow-sedge

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

This perennial herb occurs in open, damp or wet habitats, including dune-slacks, the upper edge of saltmarshes and on the stony margins of lakes or pools, and in open fens and marshes. It usually occurs on flushed acidic soils, but also locally on base-rich substrates. Generally lowland, a diminutive plant which is easily overlooked and is probably still underrecorded in W. Scotland and Ireland. European boreo temperate element.

First recorded at Auldgirth by J. Fingland in 1887. Inland records are likely to refer to C. demissa. It is infrequent on the higher parts of saltmarsh.

Site	Gridref	Date	Recorder
Dornock south NY26H	NY26H	07/06/2009	Miles, C.J.
Eastriggs Depot	NY26S	11/07/2012	Miles, C.J.

Carex pauciflora Lightf.

Few-flowered Sedge

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A perennial herb of wet, acidic, oligotrophic raised and blanket bogs, often growing on and around hummocks and usually in association with *Sphagnum* species. It is a very inconspicuous species and is easily overlooked. Circumpolar boreal montane element.

First recorded in Dumfriesshire in 1848 by W. Stevens in the Dalveen Pass. It has been recorded very infrequently since. It likes oligotrophic bog pools which is different from the similar but much commoner C. pulicaris.

Site	Gridref	Date	Recorder
Lurr+Moniaive,nr	NX78	1959	Stirling, A.McG.

Also recorded in NY38 (1955)

Carex riparia Curtis

Greater Pond-sedge

National Status: Not Scarce. Least Concern.

Status in Dumfriesshire: Rare.

This rhizomatous perennial is found in reed-swamps, on the edges of pools and lakes, in marshy areas and wet woodland, and along the banks of slow-flowing rivers and canals. It is a species of base-rich, mesotrophic or eutrophic sites. Reproduction is mainly vegetative, but new colonies can arise from seed. Lowland. Eurosiberian temperate element.

A southern species recorded very occasionally since 1839 when listed by J Cruikshank at Moniaive . Could be confused with the commoner C. acutiformis. River banks.

Site	Gridref	Date	Recorder
Cummertrees, nr	NY16	10/05/1957	Perring, F.H.; Hall, J.F.; Hall, P.C.
Woodcock Air, riverside	NY17	05/07/1997	Miles, C.J.

Carex spicata Huds.

Spiked Sedge

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A perennial herb of rough grasslands, roadsides, railway embankments, hedge banks, woodland rides and clearings, open scrub and waste ground. It is a plant of moist, neutral or slightly base-rich, heavy soils, and cannot withstand much competition. Lowland. European temperate element; widely naturalised outside its native range.

A predominantly southern species so far recorded only twice in Dumfriesshire, both times on semi natural grassy roadside verges probably as a casual introduction. Could be confused with C. muricata subsp. pairae which is commoner but tends to be in drier situations.

Site	Gridref	Date	Recorder
Castramon Hill (NX78W)	NX78098252	30/05/2010	Miles, C.J.
Tanlawhill/Castle Oe'r road junction	NY251908	1996	Corner, R.W.M.

Carex vaginata Tausch

Sheathed Sedge

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A rhizomatous perennial herb of flushed, moderately basic to slightly acidic mountain grassland; also found in flush bogs and on rock ledges. It can be locally abundant and form large patches by rhizomatous growth, but is a shy flowerer and for that reason may often be overlooked. Nationally its population is stable. Circumpolar boreo arctic montane element.

Part of the alpine flora first recorded by J.T. Johnstone at Loch Skeene in 1890. It has been found in more sites in the Moffat Hills in recent years especially in flushed calcareous grassland above 500m.

Site	Gridref	Date	Recorder
Corehead tetrad C (NT11C)	NT1005114016	08/08/2010	Miles, C.J.
Moffat Hills SSSI, Hart Fell	NT11711363	02/07/2004	Rae, D.A.
Hart Fell,SE slopes	NT121131	16/06/1992	Fleming, L.V., Galley, J.
Carrifran (NT11M)	NT1513914594	10/07/2010	Miles, C.J.
White Coomb at head of			
Carrifran Burn	NT157150	26/07/1973	Ratcliffe, D.A.
			Roberts, J., Brown, P., Miles,
Moffat Hills SSSI, White Coomb	NT16781549	22/06/2014	C.J.,

Carex x decolorans Wimm.

A Hybrid Sedge

(Carex bigelowii x Carex nigra)

National Status: Not listed, Not listed. Status in Dumfriesshire: Scarce.

This very variable hybrid occurs in damp, acidic upland habitats, espicially in mires, generally above 500m. It is usually found in the presence of both its parents; *C. bigelowii* and *C. nigra*.

Found twice by Rod Corner and likely to occur elsewhere where the two parents overlap.

Site	Gridref	Date	Recorder
Wisp Hill	NY387992	26/09/1999	Corner, R.W.M.
Arkleton Hill, Ewes Water	NY408926	14/04/1996	Corner, R.W.M.

Carlina vulgaris L.

Carline Thistle

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A monocarpic perennial herb, typically occurring in well-grazed grassland on dry, infertile calcareous or base-rich soils, but also in more open habitats, including dry rock ledges, screes, quarry floors, coastal cliffs and sand dunes. A widespread decline has taken place, since 1950. Losses are partly due to habitat destruction and a lack of grazing. Eurosiberian temperate element.

Inland populations have been known in Dumfriesshire since 1882 when recorded by J. Shaw in the Euchan valley. These are almost the only inland records in Scotland where most other populations are coastal. It grows on dry thin soils on rocky slopes.

Site	Gridref	Date	Recorder
Corserigg Forest, Kello			
Water	NS70730893	12/07/2011	Waddell, J.
Corserig Hill NS70E (NS70E)	NS7073909004	30/07/2011	Miles, C.J.
Corserigg Forest	NS71480892	08/03/2010	Thompson, Richard
Glenhargen (NS70R)	NS76040309	29/08/2010	Miles, C.J.
Glenhargen (NS70R)	NS76320298	29/08/2010	Miles, C.J.
Chanlockfoot NS70V	NS78110099	29/08/2010	Miles, C.J.

Also recorded in **NX89** (**1882**), NX97, NY06 (1882)

Carum verticillatum (L.) W. D. J. Koch

Whorled Caraway

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Not Scarce, declining.

A native perennial, calcifuge herb of marshes, streamsides, damp meadows, rushy pastures and on wet hillsides with a pronounced soligenous influence. Nationally the distribution of

this species is generally stable, indeed it may be becoming more frequent in pastures where drainage is increasingly neglected. Oceanic southern temperate element.

Dumfriesshire populations are on the eastern edge of the main distribution in Kirkcudbrightshire. Listed by Dr. Burgess at Ruthwell in 1789. Found in wet usually rushy/Molinia pasture.

Site	Gridref	Date	Recorder
Dalgonar Farm, nr	NS60	08/06/1976	Martin, M.E.R.
Euchan Falls NS70U	NS764082	02/08/2009	Miles, C.J.
N.W. Knockenhair	NS7913	02/08/2004	Miles, C.J.
Dalwhat Valley	NX706966	01/05/1998	Swan, J.
Minnygryle Burn	NX7287	03/07/1988	Stewart, O.M. Stewart, F.J.
Blackstone Farm	NX776894	03/09/1988	Martin, M.E.R. Cameron, J.
West Loch Urr	NX78M	01/09/2012	Miles, C.J.
Loch Urr NX78S	NX78S	11/09/2009	Miles, C.J.
Craigdasher to Castramont Burn	NX78W	27/07/2004	Miles, C.J.
Bogrie Hill	NX79778413	15/08/2015	Miles, C.J., Miles, A.
Scaur Water	NX8098	30/07/1997	Stewart, O.M. Miles, C.J.
NX88Q	NX8781	04/07/2008	Miles, C.J., Wilson, B.
Heathery Dam	NX9193	26/08/1984	Martin, M.E.R.
Upper Loch,pasture W of	NY069835	10/08/1988	Fleming, L.V.
Castle Loch	NY0933681273	19/08/2015	Davidson, D. Seddon, F.

Also recorded in **NS80** (**1896**), **NS81** (**1896**), **NX97** (**1896**), NY06 (1896), NY18 (1973)

Catabrosa aquatica (L.) P. Beauv.

Whorl-grass

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A stoloniferous herb of muddy pond margins, cattle-poached ditches, canals and sluggish streams; also, as var. *uniflora*, on wet open sand by the sea. Almost entirely lowland. The species has much declined due to the drainage and infilling of ponds, and the canalisation of lowland watercourses. European boreo temperate element.

First recorded in 1843 by Dr. Singer at Tinwald. Probably under recorded. Found in lower Annandale or Nithsdale generally in muddy slow moving burns or river backwaters.

Site	Gridref	Date	Recorder
Racks Moss (NY07G)	NY0237873083	06/08/2011	Miles, C.J.
Castle Wood	NY06H	16/07/2008	Miles, C.J, Wilson, B., Kennedy, D.
Rammerscales NY07Y	NY086766	22/07/2007	Miles, C.J.
Tinwald, roadsides+Lochar			
Moss.	NY08A	18/07/2004	White, A., Miles, C.J.
River Annan	NY17	17/07/1999	Walls, R.M.

Centaurium erythraea Rafn.

Common Centaury

National Status: Not Scarce, Least concern.

Status in Dumfriesshire: Scarce.

A biennial, rarely annual, herb of mildly acidic to calcareous, well-drained, often disturbed, soils, occurring in a wide range of habitats including chalk and limestone grassland, heathland, woodland rides and open scrub, dune grassland, quarries, spoil-heaps and road verges. Nationally its population is stable. European southern temperate element; widely naturalised outside its native range.

Listed by P. Gray in 1842. It grows on light sandy soil mostly not far from the coast.

Site	Gridref	Date	Recorder
			Hall, P.C. Bangerter, E.B. Hall,
Powfoot, golf course shore	NY1465	08/08/1957	J.F.
Riddingdyke	NY16H	10/07/2009	Miles, C.J.
Kinmount	NY16P	25/06/2011	Miles, C.J.
Perchall Loch SSSI	NY18	01/08/1996	Dines, T., Kay, G., Milner, B.
Dornock south	NY26H	07/06/2009	Miles, C.J.
Eastriggs Depot	NY26S	11/07/2012	Miles, C.J.
Baurch (Burning Ground)	NY26X	20/07/2014	Miles, C.J.
Lochmaben Stone NY36C	NY36C	08/09/2007	Miles, C.J.

Centaurium littorale (Turner ex Sim.) Gilmour

Seaside Centaury

National Status: Scarce, Least concern.

Status in Dumfriesshire: Scarce.

This biennial herb is confined to coastal dunes, the uppermost levels of saltmarshes and calcareous, humus-rich turf near the sea where competing vegetation is checked and the habitat kept open by grazing or trampling. Lowland. Nationally its population is stable. European temperate element.

First recorded in Dumfriesshire by W. Stevens 1848. Found along the shore into the Nith estuary at the time of the Flora. Found most abundantly in rabbit cropped, upper level merse along Solway.

Site	Gridref	Date	Recorder
Ward Law	NY025667	1958	Milne-Redhead, H.
Upper Solway Flats and			
Marshes SSSI - Nethertown	NY12306489	10/07/2009	Miles, C.J.
Upper Solway Flats and			
Marshes SSSI – Moss-side	NY12856501	10/07/2009	Miles, C.J.
Upper Solway Flats and			
Marshes SSSI - Riddingdyke	NY13536525	10/07/2009	Miles, C.J.
Upper Solway Flats and	NY14546534	12/08/2002	Hawker, D.M.

Marshes SSSI, Powfoot			
Rigg Level Crossing	NY286668	26/08/1981	Martin, M.E.R.

Centaurium pulchellum (Sw.) Druce

Lesser Centaury

National Status: Not Scarce, Least concern.

Status in Dumfriesshire: Rare.

An annual of mildly acidic to calcareous soils. Inland it is found in dry, open grasslands and heaths, in woodland rides, marl pits and other open, disturbed ground. On the coast it is a plant of open sandy and muddy grassy places, often by estuaries, sand dunes and in upper saltmarsh. Lowland. The overall distribution of this species has remained stable although there has been some decline on heathland due to lack of management (particularly grazing), and coastal development has led to the loss of some of its former sites. Eurosiberian southern temperate element.

First noted in 1836 by J. Cruickshank in the mouth of the Nith. This is close to its northern limits on the west coast.

Site	Gridref	Date	Recorder
Caerlaverock NNR, Saltcot Hills	NY056652	11/08/1970	
Dornock Brow to Torduff	NY248648	12/09/1999	Miles, C.J.

Cerastium alpinum L.

Alpine Mouse Ear

National Status: Scarce, Vulnerable Status in Dumfriesshire: Rare.

A mat-forming montane perennial herb which grows in similar habitats to *C. arcticum*, but on more strongly basic rocks. It is particularly abundant on soft mica-schists but also occurs on limestone and, rarely, serpentine. It often occurs in species-rich dwarf-herb communities. European arctic montane element.

One of the alpine rarities in the Moffat Hills. It has been known since 1843 when listed by Rev. J. Singer. Recorded in the Blackhope valley on dry rocks. There is an old record for White Coombe but it has not been seen there since The Flora.

Site	Gridref	Date	Recorder
Moffat Hills SSSI, Blackhope,	NT11891329	20/06/2008	Waddell, J.
Hartfell Craig			

Cerastium arvense L.

Field Mouse Ear

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

This perennial grows mainly on dry, calcareous to slightly acid, sandy soils, occurring in pastures, on dry roadsides, wayside banks, the margins of arable fields, sandy or gravelly waste ground, sand dunes and sand-pits. Nationally the species has declined, particularly at the edges of its range. Circumpolar boreo temperate element; widely naturalised outside its native range.

An eastern species first recorded in Dumfriesshire by J. Cruickshank in 1836. Looks likely to have declined. Likes dry well drained situations.

Site	Gridref	Date	Recorder
Lochbank,field	NY075834	25/05/1988	Martin, M.E.R.
Annan Waterfoot	NY186643	13/05/1978	Martin, M.E.R.

Also recorded in NY38 (1955)

Cerastium diffusum Pers.

Sea Mouse Ear

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

An annual of light, dry, sandy or gravelly soil. Coastal habitats include open grassland, fixed dunes, sandy banks and sheltered rock crevices. Inland, it occurs in a range of open habitats, including dry grassland, by paths, on wall-tops, road verges and railway ballast. European temperate element.

Not recorded in Dumfriesshire at the time of The Flora. The first record appears to be that of M.E.R. Martin in 1978. Generally coastal with a small number of inland records.

Site	Gridref	Date	Recorder
Auchensell, River Nith opp.	NS861035	01/06/1978	Martin, M.E.R.
Coatsgate Quarry	NT00S	07/06/2014	Miles, C.J.
Powfoot	NY152657	06/04/1986	Martin, M.E.R.
Old Graitney, Kirtle Water	NY3066	12/07/1981	Martin, M.E.R.
Tarras Water, railway viaduct	NY379811	16/05/1978	Martin, M.E.R.

Also recorded in NY27

$Ceratophyllum\ demersum\ {\rm L}.$

Rigid Hornwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

An aquatic which grows submerged in still or slowly flowing, eutrophic water in lakes, ponds, rivers, canals and ditches. It may be so abundant in ponds and ditches that it forms dense masses which rise above the water surface. Because of the species' preference for eutrophic water it is almost certainly increasing nationally. Circumpolar southern temperate element.

Not recorded in The Flora. The first record appears to be by H.G. Proctor from the Kirk Loch Lochmaben in 1968. A predominantly southern species found in standing water with nutrient enrichment.

Site	Gridref	Date	Recorder
Heathery Dam, Closeburn	NX919933	26/08/1984	Stewart, O.M.
Rock Hall, nr	NY061757	23/07/1982	Martin, M.E.R.
Rammerscales NY07Y	NY085765	22/07/2007	Miles, C.J.
Lochmaben, Kirk Loch	NY078822	12/10/1971	Martin, J.D.S.
Hightae NR,Lochmaben	NY086800	23/07/1982	Martin, M.E.R.
Castle Loch	NY086814	18/09/1996	Lassiere, O.L. Dines, C.

Chenopodium bonus-henricus L.

Good King Henry

National Status: Not Scarce, Vulnerable. Status in Dumfriesshire: Scarce, declining.

A perennial, forming patches on disturbed, nutrient-rich soil around farm buildings and ruins, and on roadsides and waste ground. It also sometimes occurs in limestone grassland. Nationally this archaeophyte appears to be decreasing perhaps because it is no longer being introduced and populations are gradually lost through a general tidying of ruderal habitats. Native to the mountains of C. & S. Europe.

Listed by P. Gray from Dumfries in 1842. In The Flora it appears to have been more widespread than today. In disturbed ground and on riversides.

Site	Gridref	Date	Recorder
Burleywhag bothy, Capel Burn	NS 971001	04/07/2000	Corner, R.W.M.
Ae Village, Water of Ae N of	NX985922	05/08/1966	Stewart, O.M.
Racks Moss (NY07G)	NY0240673159	06/08/2011	Miles, C.J.
Ae Bridgend	NY012868	01/06/1975	Silverside, A.J.
Langholm	NY3684	27/10/1978	Webster, M. McC.
Bentpath, River Esk	NY309902	12/07/1998	Stewart, O.M.

Also recorded in NS81, NT10, NY18

Chenopodium polyspermum L.

Many-seeded Goosefoot

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

An annual of waste and cultivated ground. Included as an archaeophyte. Nationally this species may be increasing. Eurosiberian temperate element. A southern species that might have arrived relatively recently.

Only recently found in Dumfriesshire for the first time. On both occasions the plant was growing on muddy river gravels beside the Nith which are flooded during the winter.

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Site	Gridref	Date	Recorder
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Kirkbog (NX89R)	NX87539245	30/08/2014	Miles, C.J., Miles, A.
Kirkton (NX98Q)	NX96438052	14/09/2013	Miles, C.J.

Chenopodium rubrum L.

Red Goosefoot

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

An annual of nutrient-rich mud around the dried-up margins of freshwater or brackish ponds and ditches trampled by livestock; also, more widely, in cultivated and waste ground, on manure heaps and farm tracks and in field gateways. Nationally increasing. Eurosiberian temperate element. A southern species that might have arrived relatively recently.

Only recently found in Dumfriesshire for the first time both populations on middens. Seeds are very persistent so will recur where ground is disturbed.

Site	Gridref	Date	Recorder
Knockenhair Fm+Crawick Water.	NS71W	15/09/2003	White, A., Miles, C.J.
Moffat Well NT00Y	NT00Y	09/08/2009	Miles, C.J.

Cicuta virosa L. Cowbane

National Status: Scarce, Least Concern. Status in Dumfriesshire: Scarce, declining.

This perennial herb grows in shallow water on the margins of standing or slowly flowing water, including lakes, ponds, rivers, streams, ditches and canals, or in deeper water on floating mats of vegetation. It also occurs in tall-herb fen, in marshy pasture and on damp mud. Despite losses in the first half of the 20th century the population of this species appears now to be stable. Eurasian boreo temperate element.

Known in Dumfriesshire since 1837 when recorded by G.N. Lloyd in the Kirk and Castle Lochs Lochmaben. It is still present in many of the places mentioned in The Flora. Around loch margins or river back channels.

Site	Gridref	Date	Recorder
Cowhill Tower (NX98L)	NX95458280	08/09/2012	Miles, C.J.
Black Loch SSSI	NX993875	11/08/1988	Fleming, V.
Lochar Moss	NY07	1895	Gilchrist-Clark
Meikleholm Loch.	NY0389	20/07/2003	Miles, C.J., Stile, S., Philip, T.
Upper Loch,N end	NY08R	13/07/2014	Miles, C.J.
Hightae NR, Lochmaben	NY084803	1976	Martin, M.E.R.
Castle Loch	NY086814	18/09/1996	Lassiere, O.L. Dines, C.
Castle Loch,N end.	NY0882	18/07/2003	White, A., Miles, C.J.
River Annan and Kinnel water			
Old Course	NY08W	31/08/2004	Miles, C.J.

Mill Loch,E end	NY081830	08/06/1987	Martin, M.E.R.
River Annan oxbow	NY108791	18/09/1996	Day, J. Willby, N.J.
Perchall Loch	NY10998761	18/07/2015	Miles, C.J.

Clinopodium vulgare L.

Wild Basil

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A rhizomatous perennial herb of hedges, woodland margins, coarse scrubby grassland, coastal cliffs and sand dunes, typically on dry calcareous soils. It is also found on waste ground, old quarries, and railway-sides. Nationally the species appears to be stable. Circumpolar temperate element, with a disjunct distribution.

First recorded in Dumfriesshire by J. Wilson at Castel O'er in 1882. Appears to be on the north west edge of its range. Prefers calcareous conditions. May have been lost from several locations mentioned in the Flora.

Site	Gridref	Date	Recorder
Grey Mare's Tail	NT11	31/07/1887	Linton, E.F.
Annan riverside	NY193679	10/07/1999	Miles, C.J.
Bentpath, River Esk	NY309902	12/07/1998	Stewart, O.M.
Penton Linns	NY47	1972	Martin, J.D.S.

Also recorded in NT20, NX98 (1957), NY29, NY38 (1955)

Cochlearia pyrenaica DC.

Pyrenean Scurvygrass

National Status: Not Scarce, Least concern.

Status in Dumfriesshire: Scarce

A biennial or perennial herb of damp, open habitats, including montane cliffs, wet gullies, bryophyte-dominated flushes and spoil heaps by old lead and zinc mines. The diploid subsp. *pyrenaica* is only known from N. England and Skye. Because of the varying taxonomic treatments in recent years, *C. pyrenaica* is under-recorded, especially in Scotland.

Recorded (as C. officinalis subsp. montana) as early as 1891 by G.F. Scott-Eliott at Hartfell. Grows in flushes and by burns in the Moffat Hills. Confusion with C. officinalis means it is probably under recorded.

Site	Gridref	Date	Recorder
Cheese Wells	NT01A	02/09/2012	Miles, C.J.
Lochan Burn	NT01W	05/07/2004	Braithwaite, M.E. Gaskell, L.W.
Selcoth Burn	NT10N	24/06/2012	BSBI Talla Selcoth Field Meeting
Upper Coomb Craig, Moffat Hills SSSI	NT12261176	24/05/2007	Waddell, J.
Carrifran (NT11L)	NT1510713393	26/06/2011	Miles, C.J.

Birkhill Cleugh NT205157 05/08/1957 Bangerter, E.B.; Hall, J.F.; Hall, P.C.

Coeloglossum viride (L.) Hartman

Frog Orchid

National Status: Not Scarce, Vulnerable.

Status in Dumfriesshire: Scarce.

Native perennial herb growing in dry grassland, dunes and chalkpits, but also flushes, scree and even roadsides. Nationally this species declined throughout the twentieth century, mainly due to ploughing and grassland improvement. Circumpolar boreal montane element.

While never common in Dumfriesshire it was first known from Dr. S.W. Carruthers' record from Greygill Head Moffat in 1888 (as Habenaria viridis). In dry or flushed hill pastures where it can be very small and difficult to find. Known from Selcoth since The Flora.

Site	Gridref	Date	Recorder
Near Mennock	NS812081	30/06/1968	BSBI Field Meeting
Selcoth Burn (NT10N)	NT1416707024	28/08/2011	Miles, C.J.

Also recorded in NS71 (1885), NS81, NY18 (1941), NY27

Coincya monensis subsp. monensis (L.) Greuter & Burdet Cabbage

Isle of Man

Cabbage

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Rare.

An annual or short-lived perennial herb, mainly found by the sea on open dunes and on the strand-line, and only rarely in bare fields and hedge banks near the sea. There is recent evidence to suggest that seed might be dispersed by sea. This subspecies is stable or even increasing in the centre of its range in N.W. England, but is slowly declining elsewhere. Endemic.

Found by the Rev. T. Bell on the Annan shore in 1882. It seems to be only sporadically present given scarcity of records.

Site	Gridref	Date	Recorder
Powfoot, disturbed sand dune	NY130651	21/08/1976	Martin, J.D.S.

Also recorded in NY26

Corallorhiza trifida Chatel

Coralroot Orchid

National Status: Scarce, Vulnerable. Status in Dumfriesshire: Rare.

A saprophytic herb usually found in shaded, damp carr on raised mires and lake margins, but which also occurs in dune-slacks. More rarely, it grows in tall-herb fen, in woods and on moorland. It may colonise secondary habitats, including plantations and quarries. Previously

overlooked its national distribution is probably stable. Circumpolar boreal montane element.

A recent addition to the v.c. by Jeff Waddell from an area of willow carr. It could be more widespread.

Site	Gridref	Date	Recorder
Heathhall Forest	NX994778	25/06/2009	Waddell, J.

Cornus suecica L. Dwarf Cornel

National Status: Scarce, Near Threatened.

Status in Dumfriesshire: Rare.

A low-growing rhizomatous perennial herb of wet, base-poor peats at moderate to high altitudes, including areas of late snow-lie. It is almost entirely confined to montane dwarf shrub heath communities, but also extends into acid montane grassland. Nationally its distribution is probably stable. European boreo arctic Montane element.

First recorded in 1931 by Miss L. Home on White Coombe. There are several colonies in the Moffat Hills where it seems to occur in areas where snow builds up and lies late. The colony on mid Craig extends for 150m along the ridge.

Site	Gridref	Date	Recorder
White Coombe	NT16841543	22/06/2014	Miles, C.J., Roberts, J., Brown, P.
Mid Craig	NT16771623	08/08/2015	Miles, C.J.

Crambe maritima L. Sea Kale

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A long-lived perennial herb of shingle and boulder beaches, very occasionally found on dunes (but only where these overlay shingle) and on cliffs. Nationally it has declined in parts of its British range, probably because of sea-defence works which have destroyed its shingle habitats. On the other hand it has increased elsewhere, perhaps because it is now rarely gathered as a vegetable and its habitats are usually ungrazed. European temperate element.

Not known in Dumfriesshire at the time of The Flora. The first record is from 1957 by P.C. Hall, F.H. Perring, and J.F Hall. It occasionally colonises shingle and sand like other sea dispersed stand line species.

Site	Gridref	Date	Recorder
Powfoot	NY16M	12/07/2009	Miles, C.J.
Newbiebarns	NY16S	09/07/2012	Miles, C.J.
Annan Waterfoot	NY16X	28/08/2008	Miles, C.J.
Dornock south	NY26H	07/06/2009	Miles, C.J.

Crepis mollis (Jacq.) Asch.

Northern Hawk's Beard

National Status: Rare, Endangered. Status in Dumfriesshire: Rare.

A winter-green perennial of herb-rich grassland and wood-pasture on shallow base-rich soils. Nationally the distribution of this species has decline substantially. European temperate element.

This was first recorded in 1889 by Rev. E.F. Linton at the Grey Mares Tail. This remains an extremely rare plant in Dumfriesshire with only 1 known extant population originally found by David McCosh in 1996.

Site	Gridref	Date	Recorder
Carrifran Burn	NT1512	1930	Watt, G.
Grey Mare's Tail	NT1814	31/7/1889	Linton, E.F.
Newland Hill (NY28N)	NY24068648	15/07/2012	Miles, C.J.
Newland Hill (NY28N)	NY24138645	15/07/2012	Miles, C.J.

Dactylorhiza incarnata (L.) Soó.

Early Marsh Orchid

National Status: Not Scarce, Waiting. Status in Dumfriesshire: Scarce.

Native perennial herb, this subspecies is found mainly in damp dune slacks, and occasionally in other habitats. Nationally its range seems stable although it has declined in some areas due to coastal erosion and scrub development.

In Dumfriesshire very infrequently recorded since found in 1894 in Carrifran by Rev. E.F. Linton. No subsp. recorded so all are probably subsp. incarnata though the taxonomy of the group continues to evolve.

Site	Gridref	Date	Recorder
Druidhill Burn	NS80A	28/05/2007	Miles, C.J.
Earshaig	NT052027	15/06/1959	Milne-Redhead, H.
Carrifran Valley	NT11	1977	Roger, J.G.
Black Esk Bridge	NY29K	21/08/2005	Corner, R.W.M., Miles, C.J.

Diphasiastrum alpinum (L.) Holub

Alpine Clubmoss

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Not Scarce.

An evergreen herb of short acidic grassland on mountains and moors, where it grows on moist but well-drained, thin peaty soils, especially those directly overlying rocks. More rarely it occurs on acidic sands. Vegetative propagation is much more frequent than sexual reproduction, which usually takes place on bare, disturbed ground. Nationally its distribution is stable. Circumpolar arctic montane element, with a disjunct distribution.

First recorded in 1862 by J. Sadler at Garpol. In the Flora also known from the Lowthers and Moffat Hills. Tends to be on skeletal soils amongst thin vegetation at higher altitudes but also colonises forestry tracks high in the hills.

Site	Gridref	Date	Recorder
Dalveen	NS90	1958	Milne-Redhead, H.
Croft Head	NT10M	02/09/2007	Miles, C.J.
Selcoth Burn	NT10N	28/08/2011	Miles, C.J.
Scawd Fell (NT10L)	NT15780210	11/03/2012	Miles, C.J.
Mid Craig	NT16071626	08/08/2015	Miles, C.J., Miles, A.
Bloodhope Head	NT20J	30/09/2006	Miles, C.J.
Glentenmont Height	NY285855	27/05/1995	Corner, R.W.M.

Also recorded in NS71 (1885), NT01(1896),

$\textbf{Dipsacus fullonum} \ \bot.$

Teasel

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A robust biennial herb, frequent in rough grassland, wood margins, thickets and hedgerows, and on roadsides and waste ground on a very wide range of soil types. It fruits prolifically, and often colonises bare ground after disturbance. Nationally its distribution is stable. European temperate element.

Interestingly regarded as an escape in The Flora when recorded in 1882 by Dr Davidson. Surprisingly uncommon in SW Scotland where it is largely coastal and infrequently encountered as a casual inland.

Site	Gridref	Date	Recorder
Beldcraig Linn, nr Greenlees	NT1000	21/08/1974	Stewart, O.M.
Cairn Water	NX798902	19/02/2011	Green, P. R.
Knowehead Quarry, Locharbriggs	NX987813	01/06/1993	Martin, M.E.R.
Lochbank	NY08	1971	Martin, M.E.R.
Annan Waterfoot NY16X	NY190643	28/08/2008	Martin, M.E.R.
Lockerbie	NY136816	19/09/1981	Miles, C.J.
Eastriggs Depot	NY26S	11/07/2012	Miles, C.J.

Drosera anglica Huds.

Great Sundew

National Status: Not Scarce, Near Threatened.

Status in Dumfriesshire: Rare.

A native insectivorous, rosette-forming perennial herb growing in the wetter parts of raised and blanket bogs (often in standing water), in flushed valley bogs, on stony lake shores and, more rarely, in calcareous mires. Generally lowland, it has been declining since the 19th century due to drainage, eutrophication and peat extraction. Circumpolar boreal montane element.

Recorded by G.N. Lloyd in 1837 on the Lochar Moss. The Flora mentions a number of places but since The Flora it has probably been lost from all but one location on Longbridgemuir. It occurs where there are bog pools on an undrained section of this raised mire.

Site	Gridref	Date	Recorder
Auchenstroan Craig, below	NX6991	1960	Stirling, A.McG.
Longbridgemuir (NY06P)	NY04826934	26/08/2012	Miles, C.J.
Lonbridgemuir	NY0568	25/07/1961	Ratcliffe, D.A.
Longbridgemuir (NY06P)	NY05266945	26/08/2012	Miles, C.J.

Also recorded NS70 (1896), NS71(1896), NX79, NY07(1896), NY18(1896), NY26(1896)

Drosera intermedia Hayne

Oblong Leaved Sundew

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Rare.

An insectivorous, rosette-forming perennial herb found on wet heaths, valley- and raised bogs, and in a band at the edge of oligotrophic lochs, most often on acidic peat over which water continuously seeps. Nationally it is decreasing through drainage, afforestation, peat extraction and the loss of lowland heath. Suboceanic temperate element.

Rather like *D. anglica* this species may have been lost from all but one site since it was first recorded in 1961 by D.A.R. Ratcliffe.

Site	Gridref	Date	Recorder
Longbridgemuir	NY0568	25/07/1961	Ratcliffe, D.A.
Longbridgemuir	NY050697	19/07/1990	Kerr, A.J.; Fleming, L.V.

Also recorded in NY07, NY16

Dryopteris expansa Fraser-Jenk. & Jermy

Northern Buckler Fern

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A deciduous fern found growing in open wet woodland and around rock outcrops at low altitudes, and in damp, sheltered hollows of upland boulder scree. Its substrates are usually mildly acidic, but it can grow in scree derived from quite base-rich mica-schists. Some lowland sites have been lost to woodland clearance, but upland sites are relatively stable.

First formally recorded in 2013 by Jeremy Roberts. He saw it when examining the more luxuriant growth of plants within a fenced enclosure on the GMT NTS property. Derek Ratcliffe had noted a fern matching *D. expansa* in block scree at the head of L. Skene in 1987 (NT164169) though this has yet to be verified.

Site	Gridref	Date	Recorder
White Coombe monad			
(NT1615)	NT16801551	22/06/2014	Roberts, J., Brown, P., Miles C.

Elatine hexandra (Lapierre) DC.

Six-stamened Waterwort

National Status: Not Scarce, Least concern.

Status in Dumfriesshire: Rare.

E. hexandra grows as an annual on exposed mud at the edge of lakes, reservoirs, ponds and flooded gravel-pits, or submerged on open substrates in shallow, oligotrophic to eutrophic water. When submerged it may sometimes persist as a short-lived perennial. Like many species in this habitat, it is subject to large annual fluctuations in numbers. European temperate element.

Mentioned as a footnote in The Flora from Lockerbie from G. Bell in 1896. Found submerged in the clear water of stoney bottomed lochs.

Site	Gridref	Date	Recorder
Loch Urr	NX760845	10/09/1996	Day, J. Willby, N.J.
			Stewart, N.F. Turner,
Mill Loch,Lochmaben	NY0783	13/07/2004	L. Carvalho, L.

Also recorded NY18 (1896).

Eleocharis acicularis (L.) Roem. & Schult.

Needle Spike Rush

National Status: Not Scarce, Least concern.

Status in Dumfriesshire: Rare.

A rhizomatous perennial herb growing on the margins of lakes, ponds, reservoirs and rivers, in sites subject to winter flooding, and fully aquatic in shallow, still or slow-moving mesotrophic to eutrophic water. Nationally its distribution is probably stable. Circumpolar boreo temperate element.

First found in Castle Loch in 1831 by G.N. Lloyd and still present today. Also found in the Mill loch. In shallow mud that is exposed in the summer.

Site	Gridref	Date	Recorder
Mill and Blind Lochs (NY08R)	NY076832	13/07/2014	Miles, C.J., Miles, A.
Castle Loch (NY08V)	NY08798132	01/10/2014	Miles, C.J.
Valison Burn-Innerfield Burn	NY0981	1988	Fleming, L.V.

Eleocharis mamilata (Lindb f.) Lindb f.

Northern Spike Rush

National Status: Rare, Least concern.

Status in Dumfriesshire: Rare.

A rhizomatous perennial herb found in the middle reaches of upland rivers, usually in slacker water in places which are to some extent protected from spates, such as in shallow bays. It also grows in ditches, pools, runnels and springs. The substrate is usually gravel with some silt deposition. Nationally the species' distribution appears stable. European boreal montane element.

Recently recorded in the v.c. for the first time near Foulbog (P. Stanley 2004) and now known from the upper Esk and Upper Annan river systems. In stony side channels of upland burns and rivers. Requires careful examination to separate from *E palustris*.

Site	Gridref	Date	Recorder
Foulbog (NT20N)	NT2418906427	20/08/2011	Miles, C.J.
Finniegill (NY19U)	NY17309873	15/08/2013	Miles, C.J.
Three Mullach Hill (NY19T)	NY17319778	15/08/2013	Miles, C.J.

Eleocharis multicaulis (Sm.) Desv.

Many Stalked Spike Rush

National Status: Not Scarce, Least concern.

Status in Dumfriesshire: Rare.

A densely tufted perennial herb mainly of acid bogs, wet heath, valley mires, pools and wet hollows over peat, and at the edge of acidic lakes; also occurring in coastal dune-slacks. Nationally much better recorded than previously. Suboceanic temperate element.

Known since listed by P. Gray near Dumfries in 1842. There have been very few localised records since then.

Site	Gridref	Date	Recorder
Chanlockfoot, Scaur Water nr	NS7800	14/08/1975	Stewart, O.M.

Also recorded NT00 (1896), NX89 (1976), NY16

Eleocharis uniglumis (Link) Schult

Slender Spike Rush

National Status: Not Scarce, Least concern.

Status in Dumfriesshire: Scarce.

A rhizomatous perennial herb, predominantly of coastal habitats, growing in damp duneslacks, saltmarshes, short, brackish grassland and pools in the spray zone. It also occurs inland in base-rich, wet meadows and calcareous marshes. Nationally its distribution is stable. Circumpolar temperate element.

In Dumfriesshire first recorded in 1963 by G. Crompton at Caerlaverock NNR. Confined to saltmarsh along the Solway coast where it is a component of the mid to higher marsh flora.

Rare Plant Register

Difficult to find where grazing removes flowering stems.

Site	Gridref	Date	Recorder
Glencaple	NX9968	1975	Martin, M.E.R.
Caerlaverock East Park NY06M	NY04676508	06/07/2014	Miles, C.J.
Caerlaverock NNR	NY066660	11/08/1970	
			Miles, C.J, Wilson, B., Kennedy,
Castle Wood	NY06H	16/07/2008	D.
			Stewart, O.M., Stirling, A.,
Powfoot	NY16	01/08/1996	Miles, C.J.
Eastriggs Depot	NY26M	1996	Miles, C.J.
Old Graitney	NY315659	12/07/1981	Martin, M.E.R.

Eleogiton fluitans (L.) Link

Floating Club Rush

National Status: Not Scarce, Least concern.

Status in Dumfriesshire: Rare.

A perennial herb found mainly on peaty, acidic substrates in, or on the margins of, slow-flowing streams, ditches, pools and the sheltered shores of some larger lakes and tarns, often in seasonally flooded sites. Nationally declining due to drainage and loss of lowland heaths. Oceanic southern temperate element, with a disjunct distribution.

The earliest listed record was by P. Gray in 1842 from Dumfries. It has been recorded only a couple of times since.

Site	Gridref	Date	Recorder
Auchengruith Mill Dam	NS8209	1886	Davidson, A.

Also recorded NX97, NX89

Empetrum nigrum subsp. hermaphroditum (Hagerup) Böcher

Mountain Crowberry

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A low-growing evergreen shrub, favouring moderately well-drained acidic soils and occurring in dwarf shrub and *Racomitrium* heaths, rock crevices and dry heather moor, including areas of late snow-lie usually above 610m. Circumpolar Boreo-arctic Montane element.

Difficult to distinguish from *Empetrum nigrum* subsp. *nigrum* when not in fruit. The earliest record appears to be from 1934. D.A. Ratcliffe reported it from the White Coombe slopes where it is still found in a mixed heath with *V. myrtillus*.

Site	Gridref	Date	Recorder
White Coombe	NT1615	22/06/2014	Miles, C.J., Roberts, J., Brown, P.

Epilobium alsinifolium Vill.

Chickweed Willowherb

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A montane perennial herb, spreading by stolons and occurring in or by mountain springs or streams, or on irrigated mountain ledges, often in moss carpets; sometimes temporarily established by streams at lower altitudes. It occurs on acidic and basic substrates, and tolerates eutrophic conditions. Nationally probably stable. European arctic montane element.

Earliest listing dates from 1789 in Flora Scottica from Hartfell. In and beside basic springs and flushes in the Moffat Hills sometimes washed down to lower levels (368m in Carrifran).

Site	Gridref	Date	Recorder
Corehead tetrad B (NT11B)	NT1088813259	08/08/2010	Miles, C.J.
White Coomb	NT11	14/06/1967	Birks, H.J.B. Birks, H.H.
Black Hope	NT1211	18/06/1989	Corner, R.W.M.
Carrifran (NT11M)	NT1506914002	26/06/2011	Miles, C.J.

Epilobium anagallidifolium Lam.

Alpine Willowherb

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A native very shortly stoloniferous perennial herb, growing in mossy mountain flushes, on steep wet slopes and by streams; sometimes washed down and persisting for a while by streams and rivers at lower altitudes. Nationally under-recorded. Circumpolar arctic montane element, with a disjunct distribution.

First listed by Rev W. Singer in 1843 at the head of Dryfe Water. Local in high springs and flushes where it typically grows in the moss lawn with *Montia fontana*.

Site	Gridref	Date	Recorder
Hart Fell	NT116135	11/06/1989	Fleming, L.V.
Firthhope Rig	NT11M	25/07/2009	Miles, C.J.
Midlaw Burn	NT1616	17/06/1989	Corner, R.W.M.

Also recorded in NT1614 (1956)

Epipactis helleborine (L.) Crantz

Broad Leaved Helleborine

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A rhizomatous perennial herb of calcareous to slightly acidic soils. Habitats include coniferous and deciduous woodland, hedgerows, shady banks, streamsides, roadsides, *Alnus* carr, dune-slacks, limestone pavement and screes. It may invade secondary woodland and also occurs in urban habitats, particularly abandoned gardens. Nationally the distribution is stable. Eurasian temperate element; widely naturalised outside its native range.

First listed by Rev W. Singer in 1843 at Tinwald (as E. latifolia). Occurs in a wide range of situations, but rarely more than one or two plants are found.

Site	Gridref	Date	Recorder
Crawick Water, W of B704	NS780131	01/08/1987	Ellis, R.G.
Heathhall	NX9878	Sept 1847	Gray, P.
Kinmount NY16P (NY16P)	NY1480569058	25/06/2011	Miles, C.J.
Springkell Estate	NY253749	1996	Miles, C.J.
Penton Bridge, Liddel Water	NY433774	28/08/1991	Porter, M.S.

Also recorded in NS70 (1958)

Equisetum hyemale L.

Rough Horsetail, Dutch Rush

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

Native evergreen herb, growing in permanently moist soils, typically in shady woodland beside streams and rivers. Also occurs in flushes and on sand dunes. Nationally although many sites were lost to drainage, many new sites are known due to better recording. Circumpolar boreo temperate element.

First recorded in Dumfriesshire by J. McAndrew in 1882 at Thornhill. Only ever recorded in a few scattered locations since principally in damp woodland.

Site	Gridref	Date	Recorder
Mennock, nr Glenairlie Bridge	NS833058	27/08/1976	Martin, M.E.R.
Penpont, nr	NX89	11/05/1882	Grierson, F.W.
Tarrasfoot Hill (NY38V)	NY38148127	08/09/2013	Miles, C.J.

Equisetum pratense Ehrh.

Shade Horsetail

National Status: Scarce, Least Concern. Status in Dumfriesshire: Scarce, declining.

A native evergreen herb, typically found on sloping sites where the substrate is derived from calcareous alluvial silts or sand, especially lightly wooded stream banks in the lower parts of upland valleys. It can also extend onto open moorland, and is found on grassy slopes beneath base-rich upland cliffs. Although most populations are long-lived, cone production is usually very poor, possibly because of climatic conditions, this may mean that the species is in slow decline. Circumpolar boreal montane element.

Recorded by Dr Davidson in 1886 above the saw-mill at Sanquhar. Very infrequently recorded since. All populations to date are in Nithsdale associated with steep wooded banks near rivers.

Site	Gridref	Date	Recorder
Knockenstob, Crawick Water	NS783116	19/06/1994	Corner, R.W.M.
Sweat Cleuch, river bank	NS785124	28/06/1989	Fleming, L.V.
East side of the Nith,			Corner, R.W.M.
Drumlanrig	NS8500	08/05/1994	
Mennock, River Nith below	NS8206	1958	Milne-Redhead, H.
Auchensell Wood,R Nith nr	NS8602	31/05/1978	Martin, M.E.R.
Castlefairn, A702 NE of	NX7688	04/05/1988	Martin, M.E.R.

Equisetum telmateia Ehrh.

Great Horsetail

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A robust, deciduous, colony-forming herb of base-rich clay soils in sites with spring-lines, permanent seepages and open flushes, especially in areas where porous rocks are interbedded with clays. It prefers open habitats and is particularly frequent on eroding sea- and river-cliffs, but also grows on roadsides and railway embankments. Nationally its distribution is stable. European southern temperate element.

The first Dumfries record appears to be by Rod Corner in 1968 on the Tarras Water. Just why such a distinctive species should have been overlooked if present before this is puzzling. It occurs in the SE of the VC on clay rich banks where there is plenty of seepage.

Site	Gridref	Date	Recorder
Cleuchbrae bridge	NY204757	23/05/1998	Miles, C.J.
Canonbie (NY37Y)	NY39287743	16/06/2013	Miles, C.J.
Hollows NY37Z	NY37Z	08/07/2007	Miles, C.J.
Tarrasfoot Hill (NY38V)	NY38548145	14/06/2014	Miles, C.J., Miles, A.
			Braithwaite, M.E. Braithwaite,
Broomholmshiels-Tarras Water.	NY38W	05/06/2004	P.F.
Penton Bridge (NY47I)	NY43557798	16/05/2014	Miles, C.J.
Whitlawside	NY47P	30/04/2011	Miles, C.J.

Equisetum variegatum Schleich. ex F. Weber and D. Mohr.

Variegated Horsetail

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Rare.

Native evergreen herb, found in widely varying habitats; dune slacks, river shingles and flushes. It is a calcicole and a poor competitor; its sites are usually open and often winter-flooded. Nationally there may be evidence of some decline although the species may have been under-recorded in the past. Upland sites are sensitive to over-stocking, whilst lowland

populations have been lost due to drainage and sand dune development. Circumpolar Boreoarctic Montane element.

First recorded by C.W. Muirhead in 1951 at Penton. In rocks beside Liddle and a flush beside the Esk. Likely to be sensitive to habitat change.

Site	Gridref	Date	Recorder
Black Esk Bridge NY29K	NY24729097	29/09/2013	Miles, C.J.
Penton Linns, Liddel Water	NY4377	13/04/2009	Groom, R.E.

Equisetum x litorale Kuhlew. ex Rupr

Shore Horsetail

(*Equisetum arvense x fluviatile*)

National Status: Not Listed, Not Listed.

Status in Dumfriesshire: Rare.

A vigorous, deciduous herb found in a wide range of habitats, often in the absence of one or both parents. It has been recorded from open woodland and scrub, pond and lake margins, streams and rivers, canals, ditches, roadsides, open peat on moorland, wet pastures and gravel-pits. Many sites are disturbed or seasonally flooded. Its national status is uncertain. Widespread in C. & N. Europe and N. America.

First recorded 1983 by M.E.R Martin. Early records are adjacent to hedges. Almost certainly under recorded given frequency of parents.

Site	Gridref	Date	Recorder
Lochmaben, B709 W of	NY060818	24/10/1983	Martin, M.E.R.
Millhill Farm	NY1181	14/06/1985	Muir, J.
Purdomestone Reservoir	NY214775	18/09/1996	Day, J. Willby, N.J.

Eriophorum latifolium Hoppe

Broad Leaved Cottongrass

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Scarce, declining.

A rhizomatous perennial herb of open sites, growing in wet, base-rich lowland meadows and mires, and in fens and calcareous flushes in the uplands. Nationally declining due to afforestation and agricultural improvement. European Boreo-temperate element.

Earliest record appears to be from J.H.Balfour in 1843 but there is some doubt about this being in Dumfriesshire. It tends to be in calcareous flushes and in small populations unlike other Eriophorum spp.

Site	Gridref	Date	Recorder
Black Hope	NT1311	1973	Ratcliffe, D.A.
Moffat Hills SSSI, Carrifran	NT15911201	05/09/2008	Waddell, J. Holme, R.
Aberlosk	NT266057	04/09/1960	Milne-Redhead, E.W.B.H.

Moodlaw Loch	NT295074	1968	Watt, Dr G.
Big Morton Hill	NX78J	16/07/2004	Miles, C.J.
Todshawhill (NY29G)	NY2333792112	01/08/2010	Miles, C.J.
Lyneholm NY29Q	NY26099085	11/07/2009	Miles, C.J.
Black Esk Bridge	NY29K	21/08/2005	Corner, R.W.M., Miles, C.J.
Coom Sike, Pikethaw Hill	NY382969	19/09/2000	Corner, R.W.M.
Arkletonshiels, Tarras Water	NY406883	30/08/1976	Ratcliffe, D.A.

Also recorded in NX79, **NX97** (**1843**), NY49 (1961)

Erodium cicutarium (L.) L'Hér.

Common Stork's-bill

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

An annual of well-drained sandy and rocky places, sand dunes, summer-parched grasslands and heaths; also found on roadsides, stone walls and railway ballast, and commonly as wool aliens. Eurosiberian southern temperate element, but widely naturalised so that distribution is now Circumpolar southern temperate.

First recorded by J. Fingland in 1887 at Annan Waterfoot. It occurs very infrequently in sandy soil at inland sites or on coastal sandy gravels.

Site	Gridref	Date	Recorder
Tinwald,roadsides+Lochar Moss	NY006804	26/06/1988	Martin, M.E.R.
Lochmaben	NY082836	03/05/1983	Martin, M.E.R.
Spedlins Flow	NY08Y	24/07/2011	Miles, C.J.
Riddingdyke	NY16H	10/07/2009	Miles, C.J.
Powfoot	NY16M	12/07/2009	Miles, C.J.
Eastriggs Depot	NY26M	05/09/1996	Miles, C.J.

Also recorded in NY38

Eupatorium cannabinum L.

Hemp Agrimony

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A perennial herb found on base-enriched soils in a wide range of damp or wet habitats, including marginal vegetation by ponds, lakes, rivers and canals, tall-herb fen, fen-meadows, marshes, wet woodland, mires and wet heath; also flushed areas on sea-cliffs and in dune-slacks. It is infrequent in dry habitats, but is found in dry woods and on hedge banks, on waste ground, and even on dry chalk banks. Nationally its distribution is stable. European Temperate element.

Recorded by P Gray in 1842 on the dock wall in Dumfries. Rarely recorded since. Much commoner on Kirkcudbright coast.

Site Gridref Date Recorder	Site	Gridref	Date	Recorder
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Newbridge, Cluden Water	NX948791	10/09/1986	Shiells, A.; Shiells, M.
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Euphorbia peplus L.

Petty Spurge

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

An annual archaeophyte of cultivated, disturbed and waste ground, frequently growing close to human habitation and favouring well-drained and nutrient-rich soils in sun-warmed situations. Nationally stable. As an archaeophyte the species has a European Southern-temperate distribution; it is widely naturalised outside this range.

Recorded by F.W. Grierson in 1882. This is a plant of disturbed ground and gardens. In the latter it might be more frequent.

Site	Gridref	Date	Recorder
Kirkconnel	NS71	05/08/1957	Collett, T.G. Hollingworth, L.M.
Keir	NX8692	1978	Harper, J.
Georgetown	NX9975	01/10/1974	Martin, M.E.R.
Dumfries	NX9876	1978	Cochrane, M.S.
Castle Loch,N end.	NY0882	18/07/2003	White, A., Miles, C.J.
Tinwald	NY002816	21/04/1993	Martin, M.E.R.
Powfoot Village monad			
(NY1465)	NY14846577	05/09/2015	Miles, C.J.
Mount Annan	NY1868	1976	Henderson, P.
Ecclefechan	NY1974	1978	Foreman, D.

Also recorded in NT00 (1896)

Euphrasia frigida Pugsley

Upland Eyebright

National Status: Not Scarce, Data Deficient.

Status in Dumfriesshire: Rare.

An annual of damp or wet, usually rather basic, cliff ledges. It occurs at 200 m on Foula (Shetland), but is usually found above 400 m, reaching 1190 m on Aonach Beag (Westerness). Eurosiberian arctic montane element; also in N. America. Only recorded three times.

First found in 1907 by E.S. Marshall. It has since been found twice in a different monad in the Moffat Hills. This upland eyebright is part of the restricted highland flora in these hills.

Site	Gridref	Date	Recorder
Frenchland Burn	NT10	17/07/1907	Marshall, E.S.
Moffat Hills SSSI, White Coomb	NT16881526	02/07/2004	Rae, D.A.

Euphrasia officinalis subsp. monticola Silverside

Montane Eyebright

National Status: Scarce, Vulneable. Status in Dumfriesshire: Rare.

An annual of upland hay meadows, primarily of relatively dry sites but also in wet meadows and upland fens, rarely if ever colonising improved grasslands. Its distribution is uncertain through difficulties of identification, but it is undoubtedly declining as hay meadows are lost or agriculturally improved. European boreo temperate element.

Only a few records for this taxon which may turn out to be the same taxon as subspecies pratensis. Found in drier places in hilly ground in unimproved grassland.

Site	Gridref	Date	Recorder
Paddockhole Hill	NY224836	06/08/1957	Biggar, Miss E.; Hall, P.C.; Hall, J.F.
Mill Knowe, Eskdalemuir	NY256953	08/08/1957	Dony, J.G.
Glenshanna Mine	NY39	1996	Groom, R., Pankhurst, R.J., Miles, C.J.

Euphrasia officinalis subsp. pratensis Schubl & G. Martens

Rostkov's Eyebright

National Status: Scarce, Vulnerable.

Status in Dumfriesshire: Not Scarce, declining.

An annual of rather damp, herb-rich hay meadows, riverside grasslands, lightly grazed pastures and grassy roadsides. Nationally his taxon is probably declining through agricultural improvement and loss of habitat. European boreo temperate element.

Recorded in Dumfriesshire as this subspecies since at least 1950. Found in unimproved grassland along upland burns and tracksides with an eastern tendency in Dumfriesshire.

Site	Gridref	Date	Recorder
Carco Mains	NS783125	09/08/1957	Milne-Redhead, H.
Coshogle Farm,nr	NS863051	10/06/1975	Pankhurst, R.J.
Burrance, Garrel Water	NY042904	05/08/1957	Milne-Redhead, H.
The Hewke	NY18P	11/08/2013	Miles, C.J.
Waterhead	NY19X	04/07/2012	Miles, C.J.
Allfornought	NY27T	24/07/1999	Miles, C.J.
Newland Hill	NY28N	15/07/2012	Miles, C.J.
Billholm Burn	NY279924	20/09/1959	Milne-Redhead, H.
Old Hopsrig	NY31448843	09/08/2015	Miles, C.J.
Wauchope School House	NY3281	05/07/1980	Silverside, A.J.
Lower Stennies Water (NY39B)	NY30479274	09/09/2012	Miles, C.J.
Bushy Knowe (NY39E)	NY30579949	09/09/2012	Miles, C.J.
Tarras Burn, farm nr	NY48	1950	Candlish, P.A. (nee Padmore))

Festuca altissima All.

Wood Fescue

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A long-lived perennial herb of moist, wooded valleys, on rocky slopes, deciduous wood margins and stream sides, especially on seepage lines or by waterfalls. Nationally better recording has revealed the species to be more frequent that has previously been thought. European temperate element.

First recorded by T. Brown in 1882 at Tynron. Usually found in shaded, rocky, wet flushed ground sometimes forming large tussocks.

Site	Gridref	Date	Recorder
Mennock Glen	NS8108	05/06/1958	Milne-Redhead, H.
Beattock, Garpol Glen	NT066031	1985	Corner, R.W.M.
Beldcraig Burn	NT113013	1985	Corner, R.W.M.
Spoon Burn NT11K	NT11K	27/07/2008	Miles, C.J.
Scar Water	NX819953	10/07/1998	Wood, D.C.
Hollows NY37Z	NY385784	08/07/2007	Miles, C.J.
Langholm, Tarras Water	NY38	1891	Elliot, G.F.S.
Penton Linns	NY47i	09/07/1987	Groom, R.E.

Filago vulgaris Lam.

Common Cudweed

National Status: Not Scarce, Near Threatened.

Status in Dumfriesshire: Rare.

An autumn- or spring-germinating annual of dry, open, acidic to neutral and occasionally calcareous habitats including open grassland, quarries and rocky ledges, sand-pits and dunes, sandy heaths and tracks, and arable and other cultivated ground. Nationally declining due to changes in agricultural practice. European southern temperate element.

Recorded in 1867 by Dr Gilchrist at Tinwald but very rarely since. This southern species is on the edge of its range but it has been found on open gravelly ground in or near quarries.

Site	Gridref	Date	Recorder
Templand	NY086874	1975	Martin, M.E.R.
Kinmount NY16P (NY16P)	NY1476369100	25/06/2011	Miles, C.J.

Fumaria bastardii Boreau

Tall Ramping Fumitory

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A scrambling native annual of arable and horticultural land and, more rarely, hedge banks, usually growing on freely-draining, acidic soils. Probably mainly spring-germinating, it is

typically found in spring-sown crops. Its national distribution remains stable although. Mediterranean Atlantic element.

First recorded in 1882 by F.W. Grierson (as F. confusa). In disturbed ground but probably under recorded due to confusion with other Fumaria species.

Site	Gridref	Date	Recorder
Beattock station	NT00	11/7/1891	Johnstone, J.T.
Burnhead, A76 junction	NX922844	04/09/1999	Miles, C.J.
Lochmaben	NY080825	02/10/1979	Martin, M.E.R.
Lochmaben	NY082835	28/08/1984	Martin, M.E.R.
Annan Waterfoot NY16X	NY186658	28/08/2008	Miles, C.J.

Fumaria capreolata subsp. babingtonii (Pugsley) Sell.

White Ramping Fumitory

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A scrambling endemic annual of open scrub, hedge banks and cliffs, and only occasionally found in arable land and gardens. Unlike most other species of *Fumaria*, it can be a winter-annual. *F. capreolata* has declined in its inland sites, where it may only have been casual, but the distribution is stable on or near the coast. Submediterranean-Subatlantic element. Recorded in The Flora (as subsp Pallidiflora).

Only recorded on disturbed ground in mid and lower Annandale and Eskdale to date. The first record appears to be from 1956 by Dr. G Watt. These are all likely to be subsp. babingtonii which is the common mainland taxa though it has rarely been recorded to subsp. level.

Site	Gridref	Date	Recorder
Amisfield, N of Dumfries	NX998828	10/08/1992	Martin, M.E.R.
Lochmaben golf course	NY082823	1973	Martin, J.D.S.
Lochmaben,N end of	NY087834	16/05/1983	Martin, M.E.R.
Road verges, Greenburn	NY129858	07/06/1997	Miles, C.J.
Eastriggs shore	NY26M	05/09/1996	Miles, C.J.

Also recorded in NY38 (1956)

Galium boreale L. Northern Bedstraw

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: not scarce but restricted.

A perennial herb of damp, usually base-enriched substrates, occurring in rocky places, on mountain ledges and screes, in base-rich flushes in montane grassland, on river shingle and stony lake shores, and on stabilised sand dunes. Nationally the distribution of this species is little changed in Scotland, but it seems to have declined in England perhaps due to increased

grazing pressure. Circumpolar boreo temperate element.

First recorded by Dr Burgess in 1789 at Blackwood. A distinctive plant of upland and riverside rocks especially where a little calcareous. Rarely present in quantity.

Site	Gridref	Date	Recorder
Corserigg Forest, Kello Water	NS70230884	12/07/2011	Waddell, J.
Corserigg Forest, Kello Water	NS71080886	12/07/2011	Waddell, J.
Glengape (NS70J)	NS72940957	25/07/2015	Miles, C.J., Miles, A.
Gareland Burn	NS771195	24/04/1960	Ratcliffe, D.A.
Drumlanrig Mains (NS80K)	NS85630109	12/07/2015	Miles, C.J.
Crairiepark NS80M	NS80M	23/05/2009	Miles, C.J.
White Dod NS81K	NS81K	20/06/2009	Miles, C.J.
Middlefield Knowe	NT0913	25/06/1987	Braithwaite, M.E. McCosh, D.J.
Wamphry Water	NT10	27/07/1996	Miles, C.J.
Upper Coomb Craig, Moffat			
Hills SSSI	NT122119	24/05/2007	Waddell, J.
Black Hope (NT11G)	NT1258112529	25/07/2010	Miles, C.J.
Firthhope Rig NT11M	NT11M	25/07/2009	Miles, C.J.
White Coombe monad 1615	NT1615	22/06/2014	Roberts, J., Brown, P., Miles, C.J.
Mitchell Hill	NT223087	23/4/1997	Corner, R.W.M., Ratcliffe, D.A.
Laverhay, Wamphry water	NY19	27/07/1997	Miles, C.J.
Todshawhill (NY29G)	NY23119301	13/06/2010	Miles, C.J.
Black Esk Bridge NY29K	NY29K	04/08/2008	Miles, C.J.

Also recorded in NX78 (1973), NX8697, NX98

Galium x pomeranicum Retz.

A Hybrid Bedstraw

(Galium verum x album)

National Status: Not Listed, Not listed.

Status in Dumfriesshire: Rare.

This vigorous hybrid, which is intermediate in all characters between its parents, occasionally arises where the two species occur together. Nationally it is probably under-recorded and its distribution is thus somewhat unclear. A robust alien variety is reported to be planted on roadside verges. Widespread in Europe.

Only recorded once. Should be more often recorded in lower Annandale and Eskdale where G.album is more frequent.

Site	Gridref	Date	Recorder
River Nith picnic area, adjacent	NS834059	07/07/1984	Martin, M.E.R.

Galium sterneri Ehrend.

Limestone Bedstraw

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Not Scarce, declining

A perennial herb of short grassland overlying limestone and basic igneous rocks and micaschist, also growing on vegetated scree slopes, rock ledges and limestone pavements. Nationally in upland habitats it is probably stable, whilst it may have declined in limestone grassland because of agricultural improvement or the lack of grazing. Suboceanic boreal montane element.

First record appears to be by E. Marshall in 1907 from the Devils Beef Tub. An indicator of calcareous rocks in the uplands.

Site	Gridref	Date	Recorder
Cold Moss NS80Z	NS80Z	30/08/2008	Miles, C.J.
Well Hill (NS90D)	NS90650722	03/08/2013	Miles, C.J.
Penbreck	NS90V	28/06/2014	Miles, C.J.
Devil's Beef Tub	NT0612	16/07/1907	Marshall, E.S.
Peat Knowe,nr	NT064134	06/07/1988	Payne, R.M.
Corehead tetrad R (NT01R)	NT0709913196	15/08/2010	Miles, C.J.
Corehead tetrad W (NT01W)	NT0844913498	08/07/2010	Miles, C.J.
Croft Head NT10M	NT10M	02/09/2007	Miles, C.J.
Selcoth Burn (NT10N)	NT1508506144	28/08/2011	Miles, C.J.
Bear Craig (NT10X)	NT1934205240	05/09/2010	Miles, C.J.
Ettrick Pen, W end of	NT197074	31/10/1979	Corner, R.W.M.
Nether Coombe Craig NT11F	NT11F	10/06/2007	Miles, C.J.
Falcon Craig	NT11G	03/08/2010	Miles, C.J.
Moffat Hills SSSI, Blackhope	NT120136	20/06/2008	Miles, C.J.
Whirly Gill	NT1313	07/09/2014	Miles, C.J.
Firthhope Rig NT11M	NT11M	25/07/2009	Miles, C.J.
Carrifran (NT11L)	NT1514713121	26/06/2011	Miles, C.J.
Grey Mare's Tail	NT183148	Jun-53	Goodway, K.M.
The Kaim	NT20I	13/07/2012	Miles, C.J.
Garwald Linns, R White Esk	NT235001	19/07/1964	Milne-Redhead, H.
Druid Hill NX89E	NX89E	24/05/2009	Miles, C.J.
Grennan Hill, Scaur Water	NX8295	17/06/1978	Stirling, A.McG.
R Black Esk+R White Esk, confluence	NY255908	05/07/1980	Silverside, A.J.

Genista anglica L.

Petty Whin

National Status: Not Scarce, Near Threatened. Status in Dumfriesshire: Scarce, declining.

A small spiny shrub, found in the lowlands on relatively humid grass heaths and around the drier fringes of bogs. In upland areas it occurs in heathy, damp, unimproved pastures. Nationally this taxon is in substantial decline mainly due to agricultural improvement. Oceanic temperate element.

First recorded by J Sadler in 1857 on Beattock Hill. There has been quite a decline in this species which has not now been recorded since 1979.

Site	Gridref	Date	Recorder
Birkshaw Forest	NY117771	17/06/1973	Little, R.
The Haggs, Ecclefechan	NY1874	08/08/1979	Martin, M.E.R.
Racks	NY0373	14/10/1976	Martin, J.D.S.
Upper Loch (Lochmaben)	NY0683	1974	Martin, J.D.S.

Genista tinctoria L.

Dyer's Greenweed

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Scarce, declining.

A small deciduous shrub of rough pastures, old meadows, grassy heaths, cliffs, road verges and field edges on heavy soils, usually calcareous to slightly acidic clays. Probably stable nationally. European temperate element.

First recorded by Mr Patrick in 1789 at Middlebie. There has been quite a decline in this species not now seen since 1992. An old grassland or heath species so has declined with losses to this habitat.

Site	Gridref	Date	Recorder
Grennan Hill	NX818956	17/06/1978	Stirling, A.McG.
Racks	NY0373	14/10/1976	Martin, M.E.R.
Northfield	NY1968	12/07/1992	Darke, H. Pringle, E.
Eskrigg	NY125805	01/06/1987	Martin, M.E.R.; Rae, J.

Also recorded in NT00, NT01, NT10, NY0, NY38

Gentianella amarella subsp. amarella (L.) Börner.

Autumn Gentian

National Status: Not Scarce, Near Threatened.

Status in Dumfriesshire: Rare.

A native annual or biennial herb of well-drained basic soils, typically occurring in grazed chalk and limestone grassland, on calcareous dunes and machair, on spoil-tips and in cuttings and quarries. There is some evidence of a decline in this species in the last 50 years. Circumpolar boreo temperate element.

Only know from one site where recorded by M.E.R. Martin in 1980. It grows on the spoil from the old antimony mine.

Site	Gridref	Date	Recorder
			Groom, R., Pankhurst, R.J.,
Glenshanna mine	NY3196	02/08/1996	Miles, C.J.

Gentianella campestris (L.) Börner

Field Gentian

National Status: Not Scarce, Vulnerable.

Status in Dumfriesshire: Scarce.

A native biennial, occasionally annual, herb of mildly acidic to neutral soils in a variety of open habitats, including pastures, hill grassland, grassy heaths, sand dunes, machair and road verges. On limestone it probably indicates surface leaching or the presence of non-calcareous superficial deposits. Nationally *G. campestris* had already suffered a marked decline before 1930 and sites are still being lost through overgrazing in the uplands and the neglect of lowland pastures. European boreo temperate element.

First recorded by S.W. Carruthers in 1890 on Greygill Head Moffat. It has only been recorded a few times. It can persist as shown by the Selcoth population which was re-found after more than 100 years.

Site	Gridref	Date	Recorder
Corserigg Hill, Kello Water	NS702089	1996	Mearns, R.
Chapel Hill	NS71	09/08/1957	Perring, F.H.
Selcoth Burn (NT10N)	NT14240687	28/08/2011	Miles, C.J.
Loch Urr	NX7685	16/08/1976	Stewart, N.F.
Ae Village, N of	NX9889	1960	Martin, J.D.S.

Also recorded in NT00 (1969) and NT20 (1970)

Geranium columbinum L.

Long-stalked Cranesbill

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

An annual of dry grasslands and grassland-scrub mosaics. Its habitats include sand dunes, scrubby cliff slopes, hedge banks, field margins, chalk and limestone downland, railway banks and old quarries. It is usually on calcareous soils, and is often a pioneer on disturbed sites. It favours warm, sheltered, often S.-facing banks and hollows. Lowland. There has been widespread decline in S.E. and N. England; most losses have occurred since 1950 and are probably due to habitat destruction, intensification of grassland management and scrub encroachment. European Temperate element.

Only recently found in Dumfriesshire by D. Kennedy on a hedge bank. It may exist elsewhere but this southern species is rare.

Site	Gridref	Date	Recorder
Crichton Royal Farm NX97W	NX985730	13/10/2009	Kennedy, D.

Geranium lucidum L.

Shining Cranesbill

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A native annual of roadside-banks, rock outcrops and scree, preferring calcareous soils and characteristic of limestone districts. It is widespread in artificial habitats, including mortared walls, churchyards, roadsides, waste ground and railway ballast; also as an escape from gardens. *G. lucidum* can be invasive, and there has been an expansion of its range over the last 50 years. Submediterranean subatlantic element.

First recorded by P. Gray 1842 at Craigs. The species grows on calcareous rocks or man made substrates with mortar.

Site	Gridref	Date	Recorder
Glenwhargen Craig	NS7603	05/08/1976	Birks, J.
Devil's Beef Tub	NT01	05/07/1894	Linton, E.F.
Dalwhat water	NX7791	11/07/1998	Stewart, O.M.
Lochvale, Dumfries	NX987752	11/06/1980	Martin, M.E.R.
			Stewart, O.M., McCosh, D.,
Caerlaverock/Clarencefiled	NY06	02/08/1996	Stirling, A.McG.
Lochmaben	NY081833	06/06/1988	Martin, M.E.R.
Powfoot Village monad			
(NY1465)	NY14846577	05/09/2015	Miles, C.J.
Newbiebarns	NY16S	09/07/2012	Miles, C.J.
Lockerbie	NY120814	15/07/1973	Martin, M.E.R.
Robgill Tower	NY27K	28/06/2009	Miles, C.J.
Burnfoot area.	NY38J	29/05/2004	Miles, C.J.

Also recorded in NT10 (1890)

Geranium sanguineum L.

Bloody Cranesbill

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A rhizomatous, perennial herb of base-rich grasslands and scrub, open rocky woodlands, coastal cliffs and stabilised sand dunes; mainly on the coast but also inland on limestone pavements and cliff ledges, and in chalk and limestone grassland. Nationally this taxon's distribution is stable. European temperate element.

Only recorded since 1990. There is a possibility that some populations are from garden sources. The population on the coast at Annan Waterfoot is in a more natural habitat given the extent of coastal populations further west and across the Solway at Silloth.

Site	Gridref	Date	Recorder
Lochmaben.	NY08W	28/06/2004	Miles, C.J.
Annan Waterfoot			
NY16X	NY190643	28/08/2008	Miles, C.J.
Dormont	NY112744	17/06/1990	Martin, M.E.R.; Pringle, E.
Burnfoot, nr bridge.	NY337889	19/07/2003	Farrell, L. Miles, C. Terry, P. Stille, S. et al.

Glebionis segetum (L.) Fourr. (Chrysanthemum segetum)

Corn Marigold

National Status: Not Scarce, Vulnerable. Status in Dumfriesshire: Not scarce, declining

A mainly spring-germinating archaeophyte annual of light, sandy or loamy soils deficient in calcium, found in arable fields and other disturbed habitats, on roadsides, waste ground and rubbish tips. It was a serious weed in Victorian times, but is now much reduced due to improved seed cleaning, liming, herbicides and the shift to autumn-sown crops. It has a European Southern-temperate distribution and is widely naturalised outside this range

First listed by P. Gray in 1842. At the time of the Flora this was a common plant in the lower Nithsdale and Annandale areas. Still frequent in these areas but probably declining with herbicide use.

Site	Gridref	Date	Recorder
Moffat	NT0706	04/07/1997	Miles, C.J.
Calside	NX987751	21/09/1982	Williamson, M.F.
Dumfries	NX994746	28/10/1989	Martin, M.E.R.
Catherinefield	NX998800	16/08/1984	Martin, M.E.R.
			Stewart, O.M., McCosh, D.,
Clarencefield	NY06	02/08/1996	Stirling, A.McG.
Houston's Corner	NY0177	18/06/1978	Martin, J.D.S.
Whitehills, Lochmaben	NY086828	28/08/1983	Martin, M.E.R.
Heck, Valison Burn	NY0980	20/08/1977	Martin, M.E.R.
Cummertrees	NY13566615	28/08/2010	Miles, C.J.
Powfoot	NY1466	06/07/1977	Martin, J.D.S.
Barrasgate	NY15056706	28/08/2010	Miles, C.J.
Haggs	NY1874	08/08/1979	Martin, J.D.S.
Brydekirk	NY1970	01/08/1996	Miles, C.J.
Rigg	NY287670	26/08/1981	Martin, J.D.S.
Pennersaughs	NY21517460	17/07/2011	Miles, C.J.
Penton linns	NY4377	17/08/1997	Miles, C.J.

Also recorded in NT10, NY09, NY18, NY37 (1958)

Glyceria notata Chevall.

Plicate Sweet Grass

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A stoloniferous perennial herb of ditches, streams and muddy pond margins, occurring on more calcareous substrates than other British *Glyceria* species. Nationally it is declining in the southern part of its range due to drainage. European temperate element; also in C. Asia.

The first record is from 1970. It is infrequent in ditches and probably under recorded in Dumfriesshire.

Site	Gridref	Date	Recorder
Netherwood (NX97W)	NX99377392	28/07/2014	Miles, C.J.
Caerlaverock NNR, The Long			
Ridden	NY060656	11/08/1970	
Range Castle, Woodlandbanks			
Burn	NY0876	22/08/1977	Martin, M.E.R.
Tinwald, Townhead, Tinwald			
Shaws and Tinwald House	NY08A	18/07/2003	Braithwaite, M.E., Terry, P.
Hoddam Castle, River Annan	NY17	17/07/1999	Walls, R.M.

Also recorded in NY16

Gnaphalium sylvaticum L.

Heath Cudweed

National Status: Not Scarce, Endangered. Status in Dumfriesshire: Scarce, declining.

A short-lived native perennial herb of open communities on dry, acidic, often sandy or gravelly soils. Habitats include heaths and heathy pastures, sand-pits, dunes, tracks and, especially, open woodland and forestry rides in areas of former heathland. Nationally it appears to be declining throughout its range, despite probably being one of the few native vascular plant species to benefit from the extensive afforestation programmes of the 20th century. Eurosiberian boreo temperate element; also in N. America.

First listed by P. Gray in 1842. This species appears to have suffered a major decline. Found on woodland tracks or other open ground. The recent record at Bentpath shows it can still turn up in new locations.

Site	Gridref	Date	Recorder
Upper Dalveen, A702	NS911083	18/08/1983	Martin, M.E.R.
Thornhill, Laught Wood	NX89	1891	Masterman, R.H.
Barbburgh Mill Quarry	NX90308835	14/07/2009	Hawker, D.
Racks Works	NY0373	1976	Martin, J.D.S.
Lochmaben	NY08	1972	Martin, J.D.S.
Dalton, Dormont Estate	NY1174	25/06/1978	Martin, J.D.S.
Auchenroddan, N of Lockerbie	NY1389	01/10/1985	Martin, M.E.R.
Bentpath	NY30828942	31/07/2011	Miles, C.J.
Bentpath	NY31008969	31/07/2011	Miles, C.J.

Also recorded in NS70, NS71, NS80, NS81, NX88 (1957), NY16, NY26, NY27 (1959)

Gymnadenia conopsea s.l.

Fragrant Orchid

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A tuberous perennial herb of species rich, dry chalk and limestone grasslands where the vegetation is not too dense, and occasionally in base-rich fens. It also grows in artificial habitats, such as abandoned quarries, lime waste and railway embankments. Nationally it is

likely to have declined widely as a result of agricultural improvement. Widespread in Europe.

The first listing of *Gymnadenia* in Dumfriesshire is by W. Keddie in 1854 at Beld Craig. Most *Gymnadenia* records were recorded at the aggregate level. The current treatment of *Gymnadenia* now defines three species in the complex. Many of these records probably no longer belong to *G. conopsea s.s.* as the habitat requirements of that taxon are generally less available in the vice county (see G. borealis). However one record* was recoded as subsp. *conopsea*.

Site	Gridref	Date	Recorder
Drumlanrig Tunnel NS80R	NS80R	31/05/2009	Miles, C.J.
Garpol Burn	NT00	08/07/1894	Linton, E.F.
Braefoot, E of Beef Tub	NT0712	25/06/1987	Braithwaite, M.E.McCosh, D.J.
Nether Coombe Craig NT11F	NT11F	10/06/2007	Miles, C.J.
Castramon Moor	NX793837	06/07/1988	Martin, M.E.R.
Scaur Valley near Laight Wood	NX89	17/06/1978	Stirling, A.McG.
Todshawhill (NY29G)	NY227937	01/08/2010	Miles, C.J.
Black Esk Bridge NY29K	NY29K	21/08/2005	Corner, R.W.M., Miles, C.J.
Boreland square*	NY19	02/08/1996	Dines, T. Kay, G.M., Milner, B.

Also recorded in NS71 (1968)

Gymnadenia borealis (Druce) R. M. Bateman

Heath Fragrant Orchid

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A tuberous perennial herb growing in base rich to mildly acidic grasslands, heaths, moors and in flushes in soils derived from sands limestones and clays. It also grows in artificial habitats, including abandoned quarries and roadside verges. This species may have declined throughout its range, probably due to habitat destruction, however having only been recognised as a taxonomic entity in the UK in 1988 its precise distribution is only now becoming known.

Only four records have been recorded in Dumfriesshire for this taxon to date. However it is likely that this is the most frequent taxon found in the acid to neutral hilly grassland in Dumfriesshire.

Site	Gridref	Date	Recorder
Euchan Water	NS7508	16/07/1997	Stewart, 0., Miles, C.J
Selcoth Burn	NT10N	24/06/2012	BSBI Talla Selcoth Field Meeting
The Kaim	NT20I	13/07/2012	Miles, C.J.
Sandyford (NY29B)	NY21099367	13/07/2013	Miles, C.J.

Gymnadenia densiflora (Druce) R. M. Bateman

Heath Fragrant Orchid

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A tuberous perennial herb characteristically found in base-rich wet meadows, fens and ditches. Occasionally it is recorded from N.-facing chalk and limestone grassland. It sometimes grows with *G. conopsea* subsp. *borealis* and is the most common subspecies in Ireland.

Although this taxon was mentioned as var. *densiflora* by Clapham *et al.* (1952) and mapped at subspecific rank by Perring & Sell (1968), it has not been recorded consistently. It is very sensitive to drainage and eutrophication, and has declined, particularly in fens. Ploughing of grassland has also caused the loss of some populations.

Only two records in Dumfriesshire to date, both recent. The record from the Black Esk was determined by Alan Gendle.

Site	Gridref	Date	Recorder
Mennock NS80E	NS80E	05/07/2009	Miles, C.J.
Scar on Black Esk, E. of Tanlawhill	NY246911	05/051996	Corner, R.W.M., Miles, C.J.

Hammarbya paludosa (L.) Kuntze

Bog Orchid

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A native pseudobulbous herb of boggy areas where the water is usually acidic but subject to some lateral movement. Typically it grows amongst saturated *Sphagnum*, but also on peaty mud and among grasses on the edges of runnels and flushes. There has been a dramatic decline in this species caused by drainage of bogs, particularly in the lowlands. Circumpolar boreal montane element, with a disjunct distribution.

Recorded by J Corrie in 1887 from Girharrow Hill and only recorded otherwise in the Keir Hills. A recent search here showed suitable habitat still survives so it may yet turn up.

Site	Gridref	Date	Recorder
Girharrow Hill	NX7886	1887	Corrie, J.
Keir Mill	NX850910	08/09/1973	Milne-Redhead, E.W.B.H.

Helianthemum nummularium (L.) Mill

Common Rock Rose

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Not Scarce.

A prostrate sub-shrub occurring in short, dry, calcareous grassland, and rather strictly confined to chalk and limestone in England, but extending into mildly acid pastures and heaths on well-drained soils in E. Scotland, and on base-rich soils over basalt in N.E. England and E. Scotland. Nationally it has somewhat declined due to conversion of chalk grassland to arable and its reversion to scrub. European temperate element.

In Dumfriesshire it is first referenced in 1882 by J. Wilson. Found on calcareous rock faces or

where calcareous seepage emerges. Infrequent and rarely in quantity. It is important as the food plant of the northern brown argus but there are no certain colonies of the latter in the VC.

Site	Gridref	Date	Recorder
Glenwhargen	NS7503	14/08/1975	Martin, J.D.S.
Glenwhargen Craig	NS7603	05/08/1976	Birks, H.J.B.
Hallscaur NS70Q	NS7738501528	25/06/2009	Miles, C.J.
Hamarty Hill (NS90W)	NS99980307	28/06/2014	Miles, C.J.
Corehead tetrad R	NT01R	15/08/2010	Miles, C.J.
Hartfell Spa	NT01V	12/07/2012	Miles, C.J.
Corehead tetrad W (NT01W)	NT0844913498	08/07/2010	Miles, C.J.
Selcoth Burn	NT10N	24/06/2012	BSBI Talla Selcoth Field Meeting
Bear Craig (NT10X)	NT1934205240	05/09/2010	Miles, C.J.
Corehead tetrad B	NT11B	09/07/2010	Miles, C.J.
Druid Hill	NX89E	24/05/2009	Miles, C.J.
Craigturra	NX809935	03/07/1982	Martin, M.E.R.

Also recoded in NS71 (1885)

Hierochloe odorata (L.) P. Beauv.

Holy Grass

National Status: Rare, Least Concern.

Status in Dumfriesshire: Rare.

A rhizomatous perennial herb occurring in a range of wetland habitats, including lakeside reed-beds, sedge swamps, *Salix* carr, river banks and wet meadows; also, in S.W. Scotland, at the base of coastal cliffs where streams emerge and along the upper edge of fringing saltmarshes. Nationally its distribution is stable. Circumpolar boreal montane element, with a continental distribution in W. Europe.

This was first recorded by C. Miles in 1993 in Castle Wood and at the back of the merse on Caerlaverock NNR. It has long been known from a similar coastal site at Southwick in Kircudbrightshire. It is likely to have been long established at Caerlaverock rather than to have been a recent colonist.

Site	Gridref	Date	Recorder
Caerlaverock Merse	NY02606505	24/07/2009	Miles, C.J.

Hymenophyllum tunbridgense (L.) Sm.

Tunbridge Filmy Fern

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A rhizomatous perennial fern of very sheltered, often deeply shaded, humid habitats; these include acidic rock faces, humic banks and tree trunks, particularly in deep stream valleys, and crevices on upland boulder scree. Nationally its distribution is largely stable. Oceanic

temperate element; also one site in N. America.

First reported in Dumfriesshire by Dr. Burgess in Flora Scottica in 1789. This has been far less frequently recorded than the next species.

Site	Gridref	Date	Recorder
Auchenhessnane, Scaur Water	NX8096	05/08/1976	Birks, J.
Canonbie	NY393782	14/10/1962	Milne-Redhead, H.

Also recorded in NX99 (1896) and NY09 (1896)

Hymenophyllum wilsonii Hook.

Wilson's Filmy Fern

National Status: Not Scarce, Near threatened.

Status in Dumfriesshire: Scarce.

A native rhizomatous perennial fern, forming dense colonies on a variety of substrates, including sheltered acidic or, rarely, mildly basic rocks, and trees in humid sites. It also occurs on damp upland cliffs, boulder scree and, rarely, old walls. Nationally its distribution is largely stable. Oceanic boreo temperate element; confined to the hyperoceanic zone of W. Europe and Macaronesia.

First reported by W. Stevens in 1848 in the Dalveen Pass and Scaur (Water). This small fern occurs amongst mosses and short vegetation on rock and tree branches in very sheltered Linns mostly in upland situations. It is sometimes hard to find at old sites which suggests it may have declined. It is much less luxuriant than populations in western Scotland.

Site	Gridref	Date	Recorder
West side of Nith Linns,	NS857004	08/05/1984	Corner, R.W.M.
Drumlanrig			
Garpol Linn	NT066031	29/03/1986	Corner, R.W.M.
Birnock water from the	NT094077	24/10/1987	Corner, R.W.M.
Moffat Well upstream			
Selcoth Burn	NT157064	23/05/1989	Fleming, L.V.
Rae Grain gully on the S. side	NT166064	19/05/1968	Corner, R.W.M.
of Capel Fell			
Nether Coombe Craig NT11F	NT11F	10/06/2007	Miles, C.J.
Falcon Craig (NT11G)	NT1306912004	03/08/2010	Miles, C.J.
Whirly Gill (NT1313)	NT13201323	07/09/2014	Miles, C.J, Miles, A.J.
Spoon Burn NT11K	NT11K	27/07/2008	Miles, C.J.
Raking Gill	NT19691540	06/09/2015	Miles, C.J.
The Kaim, Strongcleuch Burn	NT2207	23/04/1997	Ratcliffe, D.A.
L urr+Moniaive,nr	NX78	1959	Stirling, A.McG.
west side of gorge, Water of	NX994948	18/09/2002	Corner, R.W.M.
Ae above Holehouse			
W. side of the Black Linn,	NY007897	21/01/1997	Corner, R.W.M.
Glenkiln Burn			

Also recorded in NS71, NS90, NT01 (1896), NX79, NY49 (1952).

Hypericum androsaemum L.

Tutsan

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A shrub of damp or shaded habitats including woods and hedgerows. It is also widely cultivated and occurs well outside its native range in semi-natural and artificial, often drier habitats, being apparently spread by birds. Nationally its distribution is confused due to nemerous introductions and is unclear. Submediterranean subatlantic element; widely naturalised outside its native range.

It was not recorded from Dumfriesshire until 1952 though known since the nineteenth century from Kirkcudbright and Wigtownshire. Probably native in old woodland and hedges. In other situations may be introduced by birds or planted.

Site	Gridref	Date	Recorder
Drumlanrig Castle	NX89P	12/05/2012	Miles, C.J.
Heathhall Forest	NX9977	25/06/2009	Waddell, J.
Castle Wood	NY06H	16/07/2008	Miles, C.J., Wilson, B., Kennedy, D.
Brocklehurst	NY0574	1952	Balfour-Browne, F.L.
Lochmaben,nr Kirk Loch	NY082824	25/08/1988	Martin, M.E.R.
Kelhead	NY16	18/07/1999	Walls, R.M.
Bentpath	NY39	12/07/1998	Stewart, O.M., White, A.

Also recorded in NY38 (1955)

Hypericum elodes L.

Marsh St. John's Wort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A stoloniferous perennial herb of peat or peaty mineral soils in damp or wet acidic, nutrient-poor habitats, usually found in shallow water, but sometimes terrestrial, or in deeper water where it may form floating mats. It occurs in heathland pools, on the margins of ponds and slow-flowing streams, and along seepages and runnels in mires. Nationally the range of *H. elodes* has been considerably reduced in the last hundred and fifty years, and its habitats are increasingly threatened, mostly by drainage. Oceanic temperate element; one remaining site in Italy, extinct in eastern Germany and Austria.

Only one record exists for Dumfriesshire by Dr. H. Milne-Readhead. Although it lacks a specific location I include it as something to look for. It otherwise occurs SW of Dumfries (in Kircudbrightshire).

Site	Gridref	Date	Recorder
VC72 Dumfriesshire	NX98	-1957	Milne-Redhead, H.

Hypericum hirstum L.

Hairy St John's Wort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A perennial herb of well-drained, neutral to basic soils in open or partially shaded habitats including rough and ungrazed grassland, woodland rides and clearings, river banks, roadside banks and verges. Nationally this taxon's distribution is stable. Eurosiberian temperate element.

First listed in Dumfriesshire by Dr. Davidson in 1882 at Sanqhar. A plant of woodland edges and river banks.

Site	Gridref	Date	Recorder
Crawick Water	NS71W	24/08/1987	Martin, M.E.R.
Castlemilk Estate, Water of			
Milk	NY1578	05/06/1975	Martin, M.E.R.
Johnstonebridge, River Annan	NY1091	21/09/1979	Martin, M.E.R.
Westerkirk	NY2991	02/08/1996	Pankhurst, R., Groom, R., Miles, C.
Westerhall and Burnfoot	NY38J	22/06/2004	Braithwaite, M.
Whitlawside (NY47P)	NY445796	30/04/2011	Miles, C.J.

Also recorded in NS80 (1958), NT00, NX88, NY18, NY39 (1966),

Imperatoria ostruthium (L.) Koch.

Masterwort

National Status: Not Scarce, Near Threatened.

Status in Dumfriesshire: Scarce.

A perennial archaeophyte naturalised in moist or damp grassy areas, including marshy pasture, on hillsides and by streams and rivers, and sometimes established around farm buildings. Generally lowland it was formerly cultivated as a pot-herb or for veterinary purposes. It is very persistent and shows no sign of a change in its distribution. Native of the mountains of C. & S.W. Europe.

First listed by W. Stevens in 1848 at Carronbridge. This occurs where protected from grazing and grassland improvements, such as riversides and road verges, generally near habitation.

Site	Gridref	Date	Recorder
Coatsgate Quarry (NT00S)	NT07680505	06/07/2013	Miles, C.J, Miles, A.J.
Moffat, River Annan	NT080055	09/07/1981	Martin, M.E.R.
Carronbridge	NX89	1848	Scott - Elliot, G.F.
Roadside N. of Parkhouse,	NY4381179785	14/05/2009	Corner, R.W.M.
Harelaw.			

Also recorded in **NY39** (**1980**)

Isoetes lacustris L. Quillwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A submerged aquatic perennial found in oligotrophic lakes with a rocky or skeletal substrate. It frequently forms extensive lawns of many square metres at depths up to 2.5 m and rarely deeper. It also occasionally colonises artificial reservoirs. Nationally there is little evidence

of change in its actual distribution, although a few lowland sites have been lost through agricultural eutrophication. Eurosiberian boreal montane element; also in N. America.

Listed by W Keddie in 1854 from Loch Skeene and still present today. On stony bottomed clear water lochs.

Site	Gridref	Date	Recorder
Loch Skeen (NT11T)	NT17261595	22/06/2014	Roberts, J., Brown, P., Miles C.
Loch Skeen	NT171165	16/09/1996	Willby, N.J. Lassiere, O.L.
Loch Urr	NX760845	10/09/1996	Willby, N.J. Lassiere, O.L.

Jasione montana L. Sheep's Bit

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Not Scarce, declining

A biennial herb of acidic, shallow, well-drained soils. It occurs on sea-cliffs, in maritime grasslands and heaths and on stabilised sand dunes, and inland on heathland, stone walls, hedge banks and railway cuttings. Propagation is by seed and disturbed, open sites and recently burnt ground are frequently colonised. Nationally it has declined in the English Midlands and S.E. England in the latter part of the 20th century. Reasons for losses include the loss of lowland heaths and the growth of coarser vegetation following a decline in rabbit grazing. European temperate element.

First listed in Dumfriesshire by P Gray in 1842. This species can be found on well drained open or disturbed ground, particularly along the coast, on rocky outcrops or in quarries where the ground is acid and free draining. Although not strictly scarce it does appear to have declined in frequency probably as a result of shading from scrub or plantations.

Site	Gridref	Date	Recorder
Crawick	NS774108	18/08/1978	Martin, M.E.R.
			Wood, D.C., McIntosh, J.,
Mennock Water	NS80E	11/07/1998	Blackman, L.
Hartfell Spa	NT01V	22/08/1988	McCosh, D.J.
Castlefairn, A702 NE of	NX747875	16/09/1987	Martin, M.E.R.
Holywood	NX9479	1981	Meyler, R.
Jericho Loch	NX9981	04/09/1981	Roger, C.
Caerlaverock Nature Reserve	NY06	19/07/1963	Crompton, G.
Tinwald Shaws-High Dam	NY08A	13/09/1987	Martin, M.E.R.
Black Linn, Glenkiln Burn	NY007894	06/07/1980	Martin, J.D.S.
Powfoot NY16M	NY16M	12/07/2009	Miles, C.J.
Dormont, nr	NY113744	1978	Martin, J.D.S.
Dornock Brow	NY26M	05/09/1996	Miles, C.J.
Kirtle Water	NY2670	24/05/1996	Miles, C.J.

Also recorded in NS70 (1958), NT00, NX88, NX89 (1988), NY07, NY19, NY38 (1956)

Juncus alpinoarticulatus Chaix

Alpine Rush

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Rare.

This montane, rhizomatous herb occurs in rather open wet turf in marshes and flushes and by lakes and streams, usually on base-rich soil and often over limestone. It is often found with a range of other less common montane calcicoles in bryophyte-rich habitats. Nationally its distribution is difficult to discern due to confusion with variants of *J. articulatus* with which it sometimes grows and hybridises. Circumpolar boreal montane element.

This rare rush was first recorded by Rod Corner on 5 August 1996. It has only been found at the one site. This is an open base rich flushed mire. This rush is only known from a few localities in Britain.

Site	Gridref	Date	Recorder
Black Esk Bridge NY29K	NY245912	21/08/2005	Corner, R.W.M.

Juncus compressus Jacq.

Round Fruited Rush

National Status: Not Scarce, Near Threatened.

Status in Dumfriesshire: Rare.

A compact to spreading, rhizomatous perennial herb found in marshes, wet meadows and pastures, often near the sea and sometimes in brackish conditions. *J. compressus* has always been confused with *J. gerardii*, especially on the coast. It could well be under- or over-recorded. Nationally probably declining because of drainage and the loss of permanent pastures. Conversely, it has appeared in new sites on the edges of reservoirs. Eurosiberian temperate element; widely naturalised outside its native range.

Only one record for Dumfriesshire which was confirmed by F Perring. Given the dominance of *J gerardii* on the saltmarsh it will be challenging to refind this record.

Site	Gridref	Date	Recorder
Caerlaverock	NY026653	16/08/1979	Martin, M.E.R.

Juniperus communis subsp. communis L.

Common Juniper

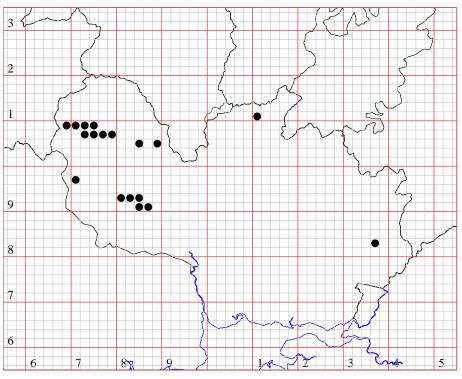
National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Not Scarce, declining

J. communis is a dioecious evergreen conifer found on basic and acidic soils in a wide range of habitats, including chalk downland, heather moorland, oceanic heaths, rocky slopes and in Betula, Quercus and Pinus woods. The decline in S. Britain was already apparent in the

1962*Atlas* and since then losses in other areas have become apparent. Burning has largely eliminated it on grouse moors, and the scrub communities in which it regenerates have declined severely due to grazing, burning, succession to woodland and afforestation.

The first records for Dumfriesshire are listed by Dr. Singer in 1843. A detailed survey was undertaken by Richard Mearns in 1999/2000 across D&G. He provides historical and current records in the Transactions DGNHAS LXXXV 2001. His work indicates a large decline since recording began. Today's populations are generally fragmentary and appear to be largely senescent on hill slopes where they have survived the impacts of clearance, fire and grazing. The three largest populations are at Tynron SSSI, Keir Hills (Wauk Hill) and Kellow Water. Recent disease outbreaks are threatening further losses. Some new planting has occurred on Borders Forest Trust land in the Moffat Hills (see dot) usually from local stock. The small isolated population at Langholm is very vulnerable.

Juniperus communis (Juniper)



Knautia arvensis L.

Field Scabious

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A perennial herb of calcareous and neutral grassland on well-drained, especially basic soils. It is found in chalk and limestone grassland, in rough pasture, open hedgerows and wood borders, and as a colonist on roadside verges, railway embankments and grassy waste ground. It is also a locally common weed of cultivation, especially in field-borders on the chalk. Nationally it has declined during the last half of the 20th century. Eurosiberian temperate element; widely naturalised outside its native range.

First listed for Dumfriesshire by P Gray in 1842 from Terregles. Numerous places are listed in The Flora but there is only one recent record that is not suspected to be deliberately sown

as this species is present in wildflower seed mixes.

Site	Gridref	Date	Recorder
Liddle Water/Harelaw	NY47	09/07/1987	Groom, R.

Also recorded in NX89 and NY37

Koeleria macrantha (Ledeb.) Schult.

Crested Hair Grass

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A perennial herb of grasslands on infertile, mainly calcareous substrates; also around rock outcrops, screes, quarry heaps and old lead workings. In many areas it is most frequent in dry, sandy, base-rich grassland on cliff-tops and dunes. Nationally it is known to have declined in many areas due to habitat destruction and intensification of grassland management. Circumpolar temperate element.

Listed for Dumfriesshire by Dr Davidson in 1890 from upper Nithsdale. Only twice recorded since and no detailed site or gird ref exists. In Calcareous grassland.

Site	Gridref	Date	Recorder		
Decorded from NV2C and NV2Q (10FC)					

Recorded from NY26 and NY38 (1956)

Lactuca virosa L. Great Lettuce

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: rare recent colonist.

Native annual or biennial herb, occurring on coastal cliffs, rock outcrops and sand dunes. Also grows on waste, woodland margins and in quarries. Nationally the species may be increasing, its spread assisted by road development.

It was first noted in Dumfriesshire by C. Miles in 2010 as a plant on the verges of the motorway approach road. Has persisted and increased since and likely to continue to do so.

Site	Gridref	Date	Recorder
Lockerbie North (NY18G)	NY12878294	01 August 2015	Miles, C.J.

Lamium amplexicaule L.

Henbit Dead Nettle

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

An annual archaeophyte of open, cultivated and waste ground, usually found on light, dry soils. It also occurs on walls, by railways and in cracks in pavements. Nationally there appears to be a slight decline in this species, especially in S. England and N.E. Scotland. It is decreasing as a weed of cultivated land because of the increased use of herbicides.

Eurosiberian southern temperate distribution, but it is widely naturalised so that distribution is now circumpolar southern temperate.

First listed by P Gray in 1842 from Dumfries. In The Flora it was noted from numerous locations but has been recorded only once over the last 100 years.

Site	Gridref	Date	Recorder
Kirkton railway cuttings	NY1383	Aug-96	Davidson, A. D.

Also recorded in NX97 (1896), NX98 (1896)

Lamium confertum Fr.

Northern Dead Nettle

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

An annual archaeophyte of cultivated and waste ground. Nationally in decline and naturalised populations no longer exist in England, where it is now present only as a casual. European boreal montane distribution; it also occurs in Greenland.

First listed by J Cruickshank in 1839 at Brownhall. In The Flora it was noted from numerous locations but has been recorded only once over the last 100 years.

Site	Gridref	Date	Recorder
Brownhall, Dumfries	NX97	01/09/1839	Cruickshank, J.
Lochmaben	NY080825	18/08/1981	Martin, J.D.S.

Also recorded in NS70, NX89, NY16

Lamium hybridum Vill.

Cut Leaved Dead Nettle

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

An annual archaeophyte of cultivated. waste and disturbed ground on dry soils, often occurring as a weed of heavily fertilised, broad-leaved crops. Nationally it is expanding its range, presumably due to its ability to exploit conditions of high fertility. However, it is often confused with *L. purpureum*, so may previously have been under-recorded. European temperate distribution.

Only one record made and no detailed site or grid ref exists.

Site	Gridref	Date	Recorder	
Recorded from NY26 before 1969.				

Lathraea squamaria L.

Toothwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Not Scarce.

An annual or perennial herb, parasitic on the roots of a range of woody plants notably hazel, ash and elm. Its typical habitats include deciduous woodland, hedgerows, and river and stream banks. Nationally there have been losses throughout its range, the reasons for which are unclear. European temperate element; also in C. Asia.

First recorded in Dumfriesshire by T. Brown in the Scaur water in 1882. It is infrequently seen, probably because it disappears after flowering. It is associated with old native woodland on stream/river banks.

Site	Gridref	Date	Recorder
Sanquhar	NS777129	25/05/1968	Milne-Redhead, H.
River Nith, A76	NS862032	23/04/1976	Martin, J.
Stenhouse Wood SSSI	NX795932	05/08/1993	Walker, M.
Wood Hill	NX987896	09/08/1976	Marquiss, M.
Croalchapel	NX912919	28/5/99	Harrison, P.
Kirkton railway cuttings	NY18	Aug-98	Davidson, A. D.
Wamphry water NY19I	NY1340596837	22/04/2012	Miles, C.J.
Lyneholm (NY29Q)	NY27999189	16/05/2010	Miles, C.J.
Enzieholm	NY29V	16/05/2010	Miles, C.J.
Canonbie	NY394763	16/06/1980	Martin, M.E.R.
Burnfoot	NY336888	11/05/1988	Stewart, O.M. Martin, M.E.R.

Lemna trisulca L.

Ivy Leaved Duckweed

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

The only submerged species of *Lemna* in our area, this species is frequent in mesotrophic to eutrophic, still or slowly flowing waters where low nutrient levels or exposure prevent the development of a dense blanket of floating *Lemna* species. Reproduction is by vegetative budding; flowering is very rare. Nationally there have been some local losses, but the distribution of *L. trisulca* is otherwise stable. Circumpolar temperate element.

Not recorded at the time of the Atlas which makes H. Milne Redhead's record from 1959 the earliest. In clear water where light penetrates. This may be spreading.

Site	Gridref	Date	Recorder
Glengar Loch	NX830963	17/05/1959	Milne-Redhead, H.
Drumlanrig Castle NX89P	NX85779947	12/07/2015	Miles, C.J.
Cowhill Tower (NX98L)	NX95458280	08/09/2012	Miles, C.J.
Hartwood Moor (NY07U)	NY06427855	06/09/2014	Miles, C.J.
Kirk Loch, Lochmaben	NY0782	1973	Martin, J.D.S.
Mill Loch,Lochmaben	NY0783	13/07/2004	Stewart, N.F. Turner, L. Carvalho, L.
Castle Loch	NY08V	01/10/2014	Miles, C.J.
Lochmaben	NY08W	1988	Martin, M.E.R.

Kinmount NY16P	NY143684	20/07/2008	Miles, C.J.

Leontodon saxatilis Lam.

Lesser Hawkbit

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A perennial or biennial herb of often heavily grazed and trampled grassland, dry moorland, stony banks, limestone and other basic rock outcrops, fixed dunes, tracks, and sand- and gravel-pits. It prefers well-drained, calcareous to mildly acidic soils, but also occurs in periodically wet habitats such as dune-slacks, rutted tracks and pond margins on sandy soils. Nationally it has apparently declined in some areas since 1950. Suboceanic southern temperate element; widely naturalised outside its native range.

First listed by Rev. J. Fraser before 1882 from along the shore. Still grows on sandy ground along the coast with only a couple of inland records.

Site	Gridref	Date	Recorder
Caerlaverock NNR, Castle Burn	NY022652	11/08/1970	
Lochmaben	NY082836	15/08/1984	Martin, M.E.R.
Riddingdyke	NY16H	10/07/2009	Miles, C.J.
Boreland square	NY19	02/08/1996	Dines, T. Kay, G.M., Milner, B.
Eastriggs Depot	NY26S	11/07/2012	Miles, C.J.
Baurch (NY26X)	NY29146543	20/07/2014	Miles, C.J.
Old Graitney	NY315659	12/07/1981	Martin, M.E.R.

Also recorded in NS81, **NX98** (1957), and NY29

Lepidium ruderale L.

Narrow Leaved Pepperwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

An annual archaeophyte, or rarely biennial, herb of banks and bare waste land near the sea, and of salted road verges. It is also frequent as a casual of roadsides, rubbish tips, gardens and waste places. *L. ruderale is* increasingly found as a halophyte along trunk roads, but is apparently less frequent as a casual than it was before the Second World War. As an archaeophyte it has a eurosiberian temperate distribution; it is widely naturalised outside this range.

Only recently recorded in Dumfriesshire and both records are from coastal sites where it has presumably arrived naturally. It is a southern species that is also rare on the south side of the Solway.

Site	Gridref	Date	Recorder
Powhillon NY06T	NY0666	01/09/1998	Hawker, D.
Annan Waterfoot NY16X	NY192647	28/08/2008	Miles, C.J.

Limonium humile Mill.

Lax Flowered Sea Lavender

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A perennial herb of ungrazed or lightly grazed muddy estuarine saltmarshes. It is often growing in close proximity to its commoner relative, *L. vulgare*, but replacing it in some areas. It rarely occurs on rocky cliffs. Nationally here has been very little change in distribution *recently*, though a few local losses have been noted as a result of land-use changes or invasion by *Spartina*. Oceanic temperate element.

First recorded on the merse at Caerlaverock by J.T. Syme in 1838. Recent searches found a few isolated plants on the eroding edge of the merse west of Powfoot. Dumfriesshire plants are on the eastern end of the main Solway populations.

Site	Gridref	Date	Recorder
Caerlaverock	NY06	8/8/1839	Cruikshank, J.
Riddingdyke NY16H	NY12846496	10/07/2009	Miles, C.J.
Riddingdyke NY16H	NY129650	00/00/1987	Dawson, H.J.
Riddingdyke NY16H	NY13066512	10/07/2009	Miles, C.J.

Limonium vulgare Mill.

Common Sea Lavender

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A perennial herb of ungrazed or lightly grazed muddy saltmarshes, occasionally also growing amongst nearby rocks and on the stonework of sea-walls. Nationally its distribution shows little change, but the species is declining in many areas as saltings are invaded by *Spartina anglica* or have become more intensively grazed. Mediterranean atlantic element.

Only one record has been made of this species. It was seen by Mary Martin who confirmed its identity.

Site	Gridref	Date	Recorder
Powfoot	NY129650	1975	Darke, H.; Pringle, E.

Lobelia dortmanna L.

Water Lobelia

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A small, rosette-forming perennial herb of oligotrophic lakes with acidic substrates. It is slow-growing, with little ability to withstand shade or competition and is therefore confined

to shallow water less than 2 metres deep. Nationally it is still frequent in the north and west but has declined, largely before 1930, from the eastern edge of its range in both Britain and Ireland through eutrophication. European boreal montane element; also in N. America.

First listed by G.N. Lloyd 1n 1837 at Lochmaben. This western species has only ever been recorded in a handful of lochs. It has not been seen at Morton or Lochmaben in recent years and may be extinct in these locations. Dumfriesshire is on the eastern edge of the Galloway populations.

Site	Gridref	Date	Recorder
Loch Urr NX78S	NX78S	11/09/2009	Miles, C.J.
Lochmaben	NY08	1941	Ambrose, F.

Also recorded in NX89

Malva moschata L. Musk Mallow

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A perennial herb of roadsides, hedge banks, woodland edges, pastures, field-borders, river banks and grassy waste places, preferring well-drained soils in unshaded or lightly shaded situations. It is tolerant of moderate levels of grazing or mowing, and seed is persistent in the soil. *M. moschata* is native in S. England, but is probably introduced in N. Britain and Ireland. The distribution is stable, although it may be increasingly introduced with wild-flower seed mixtures and as garden escapes. European temperate element; widely naturalised outside its native range.

First listed for Dumfriesshire by J. Shaw in 1882. Never very widespread but can be found in rough grassland or on the coast. None of the sites appear to have been seeded though confusion with plants introduced this way or from garden escapes is possible.

Site	Gridref	Date	Recorder
			Wood, D.C., McIntosh, J.,
Enterkinfoot	NS858042	11/07/1998	Blackman, L.
Kirkton	NX98Q	14/09/2013	Miles, C.J.
Powfoot	NY16M	12/07/2009	Miles, C.J.
Eastriggs Ordnance depot	NY260650	24/07/2002	Miles, C.J., Galley, J.
Bigholms Burn.	NY314813	19/07/2003	Farrell, L., Stile, S.

Also recorded in NX89, NY09, NY18, NY37

Meum athamanticum Jacq.

Spignel

National Status: Scarce, Near Threatened. Status in Dumfriesshire: Not Scarce.

A perennial herb of deep brown-earth neutral or mildly acidic soils occurring in dry, unimproved grassland in pastures, hay meadows and on roadside-banks. Nationally it

appears to be declining. European boreal montane element.

The earliest record is from Glenhwhargen Craig by J. Shaw in 1882. Mostly now on roadsides or in rough pasture where grazing pressure is less acute. Less common than at the time of The Flora, due to agricultural improvements in grassland or conifer plantations. There is a distinct western bias with Dumfriesshire being on the eastern edge of the more extensive Galloway populations.

Site	Gridref	Date	Recorder
Euchan Water	NS70	-1896	Davidson, A.
Buttknowe,nr	NS723124	15/07/1988	Martin, M.E.R.
Gateslack	NS80	-1896	Armstrong, R.
White Coombe (NT11S)	NT17041495	12/09/2010	Miles, C.J.
Eskdalemuir Observatory	NT2302	1975	Martin, M.E.R.
Muckle Knowe,B109 road	NT253068	18/06/1975	Little, R.
Cairnhead, Dalwhat R NW of	NX6996	1991	Fleming, L.V.
Auchencheyne (NX78N)	NX74528734	30/05/2010	Miles, C.J.
Nether Craigenputtock,nr	NX787831	15/06/1987	Martin, M.E.R.
Castramon Moor,Lettrick Farm	NX793837	06/07/1988	Martin, M.E.R.
Moniaive Village	NX77649084	01/08/2010	Wilson, B.
Stroquhan	NX88	-1896	Druce, G.C.
Glenwhargen Craig	NX89	1882	Shaw, J.
Wolfhope burn	NY365933	20/06/1998	Hawker, D.M.

Myosotis ramosissima Rochel

Early Forget Me Not

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

An annual of open habitats or bare ground on dry, relatively infertile soils. It is found in chalk and limestone grassland, on sandy heaths and banks, stabilised dunes, the borders of sandy cultivated fields, railway tracks, rocks, walls, gravel-pits, quarry spoil and waste ground. Nationally there have been some local losses since 1950, possibly caused by the loss of close-grazed semi-natural communities in inland areas. European southern temperate element.

Only one record exists in Dumfriesshire and no detailed site or grid ref exists.

Site	Gridref	Date	Recorder
Recorded in NY38 (1955)			

Myosotis stolonifera (DC.) Gay ex Leresche & Levier.

Pale Forget Me Not

National Status: Scarce, Least Concern. Status in Dumfriesshire: Not Scarce.

A perennial herb growing by rills and along base-rich spring-lines and flushes. Nationally its distribution is stable. Oceanic boreal montane element.

Not known when the atlas was written so the first record for Dumfriesshire appears to be by A.H.G. Alston in 1938 at the Grey Mares Tail. This is a plant of flushes and mires in the hills where it is not uncommon. It may be better recorded today than previously though has to be carefully separated from M. secunda which also occurs in similar situations. It is found in the Moffat, the Ettrick and the Lowther Hills and Dumfriesshire is one of the strongholds for this North Pennine and Southern Upland specialist.

Site	Gridref	Date	Recorder
Friarminnan Square	NS71J	01/08/2004	Miles, C.J.
Spothfore Burn	NS769154	19/06/1994	Corner, R.W.M
N.W. Knockenhair	NS7913	02/08/2004	Miles, C.J.
White Dod NS81K	NS81K	20/06/2009	Miles, C.J.
Whiteside (NS81V)	NS8841711242	10/07/2011	Miles, C.J.
Ganna Shank (NS90K)	NS95470063	27/07/2013	Miles, C.J.
Penbreck (NS90V)	NS98930152	28/06/2014	Miles, C.J.
Corehead tetrad B (NT11B)	NT1041413136	08/08/2010	Miles, C.J.
Moffat Hills SSSI, Carrifran Burn	NT15511257	28/06/2004	Rae, D.A.
Moffat Hills SSSI, Carrifran Burn	NT15281300	28/06/2004	Rae, D.A.
Moffat Hills SSSI, White Coomb	NT165157	2004	Rae, D.A.
Moffat Hills SSSI, White Coomb	NT16031631	08/08/2015	Miles, C.J, Miles, A.J.
Moffat Hills SSSI, Moffat Water	NT18121367	10/06/2004	Rae, D.A.
Dobs Linn (NT11X)	NT19561543	03/07/2011	Miles, C.J.
Summer Cleuch Knowe (NT20D)	NT20110792	04/08/2014	Miles, C.J.
Trowgrain Middle (NT21C)	NT20921553	06/09/2015	Miles, C.J.

Myosotis secunda Al. Murray **x Myosotis stolonifera** (DC.) Gay ex Leresche & Levier.

Myosotis x bollandica P. Jepson

National Status: None given. Status in Dumfriesshire: Rare.

A hybrid that is intermediate between the parent species in overall appearance and growing in hill country by rills and along base-rich spring-lines and flushes in similar positions to the rarer parent. It was only discovered in 1996 in West Lancashire. So far it has been found only within the range of M. stolonifera.

In Dumfriesshire it was discovered by Rod Corner in the Carrifran Valley in July 2010. This has sustained itself for a number of years. A second population was found in the Lowther Hills in 2015. It has also been found in Peebleshire and can be expected elsewhere where the two parents overlap.

Site	Gridref	Date	Recorder
Base of Glendorch Rig,			
Wanlockhead	NS85351464	19/07/2015	Miles, C.J.

Carrifran Vallev	NT1412	00/07/2010	Corner, R.W.M.
		00/01/2020	

Myriophyllum spicatum L.

Spiked Water Milfoil

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

This species grows in a wide range of meso-eutrophic or eutrophic and often calcareous waters. These include lakes, ponds, rivers, canals and ditches. It may persist in managed ditches and rivers and colonises newly flooded mineral workings. It also grows in slightly brackish sites. Nationally the species' distribution is stable. Eurasian temperate element, but naturalised in N. America so distribution is now circumpolar temperate.

Earliest reference in Dumfriesshire is from the listing by P. Gray in 1842 but without site details. In brackish water near the coast and standing freshwater inland that is nutrient enriched.

Site	Gridref	Date	Recorder
Samye Ling	NT2400	06/09/1999	Miles, C.J.
Kidddam Hll	NT20B	02/08/2015	Miles, C.J.
Jerico Loch	NX995805	23/09/1996	Lassiere, O.L. Dines, C.
Caerlaverock NNR	NY0565	25/07/1989	Shimmings, P.
Hartwood Moor (NY07U)	NY06427855	06/09/2014	Miles, C.J, Miles, A,J.
Mill Loch, Lochmaben	NY0783	13/07/2004	Stewart, N.F. Turner, L.Carvalho, L.
River Annan and Kinnel			
water Old Course	NY08W	31/08/2004	Miles, C.J.
Kinmount NY16J	NY139689	19/09/1996	Lassiere, O.L. Dines, C.
Gavins Loch	NY293691	18/09/1996	Day, J. Willby, N.J.
Purdomestone Reservoir	NY214775	18/09/1996	Day, J. Willby, N.J.
Girdlestanes (NY29N)	NY25859705	19/09/2015	Miles, C.J.

Also recorded in NY09

Nasturtium microphyllum (Boenn.) Rchb.

Narrow Fruited Watercress

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

Perennial herb growing in and beside streams, ditches, ponds and canals, and in marshes. Almost certainly under-recorded; it may be more frequent in N. England and E. Scotland than current information suggest. It is not commercially cultivated as watercress. World distribution uncertain.

First record for Dumfriesshire was by H. Milne Redhead in 1958. It is probably under recorded. It occurs in muddy bottomed streams and pools.

Site Gridref Date Recorder	
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Wildfowl Trust	NY06	27/06/1989	Martin, M.E.R.
Brocklehirst	NY050738	23/09/1996	Lassiere, O.L. Dines, C.
The Hewke	NY18P	11/08/2013	Miles, C.J.
Langhom area	NY39	12/07/1998	Stewart, O. White, A.

Neottia cordata (L.) Rich.

Lesser Twayblade

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Not Scarce, declining.

A perennial herb found in moorland and on peat bogs, often growing in *Sphagnum* or in the moss layer beneath *Calluna* and *Vaccinium*, always in wet, acidic conditions. It also grows in moss in damp, heavily shaded wood-carr, and occasionally under *Pinus*. Nationally its distribution appears stable although it is an inconspicuous plant and may be under recorded. Circumpolar boreal montane element, with a disjunct distribution.

First listed in Dumfriesshire by Dr. Singer in 1843. This is found on moorland under a heather canopy growing over compact Sphagnum. It is still widely distributed in appropriate hill ground but is likely to be lost where heather is lost to grazing or to plantation forestry. It survives on the edge of Moodlaw Loch in a fragment of moorland for example in the middle of extensive forestry.

Site	Gridref	Date	Recorder
Wanlockhead (NS81R)	NS86721358	19 Jul 2015	Miles, C.J., Miles, A.J.
Wanlockhead, S of, nr B797	NS874117	31/07/1985	Knapp, A.
Firthhope Rig	NT11M	25/07/2009	Miles, C.J.
White Coombe monad			
(NT1615)	NT16781549	22/06/2014	Roberts, J., Brown, P., Miles C.
Mid Craig Monad (NT1616)	NT16501682	08 Aug 2015	Miles, C.J., Miles, A.J.
Midlaw Burn, nr	NT172157	01/07/1978	Groom, R.
Dobs Linn (NT11X)	NT18621554	03/07/2011	Miles, C.J.
Mitchell Hill (NT20E)	NT21380881	21 Jul 2012	Miles, C.J.
Moodlaw Loch NT20Y	NT29240742	04/07/2012	Weston, A.
Clonrae Hill	NX89	1882	Grierson, F.W.
Enzieholm Farm, NW of	NY29	1955	Watt, G.
Whita Hill	NY3784	03/07/1975	Martin, M.E.R.
Arkleton Hill (NY49B)	NY40439218	12/07/2014	Miles, C.J.

Also recorded in NS70 (1882), NT00, NT01,

Neottia nidus-avis (L.) L.C.M.Richard

Bird's Nest Orchid

National Status: Not Scarce, Near Threatened.

EC Cites Annex B

Status in Dumfriesshire: Rare.

This native obligately myco-heterotrophic herb is most frequent in the deep humus of densely shaded *Fagus* woods on chalky soils. Less commonly it occurs in mixed deciduous woodland and mature *Corylus* coppices, on soils derived from limestones and base-rich clays and sands. Nationally this species suffered a considerable decline throughout the 20th century, but particularly between 1930 and 1970. It is very vulnerable to habitat disruption, and most losses are probably due to changes in woodland management and conifer planting. Eurosiberian temperate element; also in E. Asia.

First reported from near Lockerbie by G. Bell in 1893. It is infrequent on the roots of *Corylus* or *Fagus* in old woodland.

Site	Gridref	Date	Recorder
Craignee, Scaur Glen	NX824948	05/06/1976	Martin, J.
Castlemilk Sawmill, Water of			
Milk	NY153788	16/06/1974	Little, R.
Wamphray Church - Laverhay	NY135967	24/06/1992	Green, R.
Howath, Kirtle Water	NY247751	13/06/1986	Martin, M.E.R.; Muir, J.
Fairy Loup, Byre Burn	NY395784	1983	Watt, G.
Longwood-Broomholm, River			
Esk E of	NY374825	01/07/1978	Groom, R.

Also recorded from NY18 (1893)

Nuphar lutea (L.) Sm.

Yellow Water Lily

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

This native perennial grows in mildly acidic or basic, mesotrophic or eutrophic water in lakes and slowly flowing rivers, canals and large ditches. Nationally its distribution remains stable. Eurosiberian boreo temperate element; closely related taxa occur in N. America.

First listed in Dumfriesshire by P Gray in 1842. Though often occurring with N. alba it is less common than the latter.

Site	Gridref	Date	Recorder
Craigielands	NT078015	09/09/1996	Willby, N.J. Lassiere, O.L.
West Loch Urr	NX78M	01/09/2012	Miles, C.J.
Loch Urr NX78S	NX78S	11/09/2009	Miles, C.J.
Loweberry Loch	NX882815	02/09/1996	Willby, N.J. Lassiere, O.L.
Capenoch	NX89	23/07/1999	Miles, C.J.
Grassyard Loch	NY07	29/06/1986	Martin, M.E.R.
Kirk Loch, Lochmaben	NY0781	1975	Martin, J.D.S.
Mill and Blind Lochs	NY08R	13/07/2014	Miles, C.J.
Hightae NR,Lochmaben	NY084803	1976	Martin, M.E.R.
Castle Loch	NY088816	-1999	Martin, M.E.R.

Nuphar x intermedia Ledeb.

(*Nuphar lutea x Nuphar pumila*)

National Status: Not Listed, Not Listed.

Status in Dumfriesshire: Rare.

Intermediate between the parents this rare hybrid can be present in the absence of one of the parents but is found close to where they overlap.

It has been known in Dumfriesshire since first recorded by A. Davidson in 1886. It was found at Loch Urr by J. Day and N. J. Willaby in 1996. It is found in oligotrophic water bodies. *N. pumila* has not been recorded in Dumfriesshire.

Site	Gridref	Date	Recorder
Sanquhar,Black Loch	NS7910	7/1886	Davidson, A.
Loch Urr	NX78S	11/09/2009	Miles, C.J.

Oenanthe fistulosa L.

Tubular Water Dropwort

National Status: Not Scarce, Vulnerable.

Status in Dumfriesshire: Rare.

A perennial herb of damp or wet habitats, usually in areas of winter flooding. It occurs in meadows and pastures in the flood plains of rivers, in marshes and fens, and in emergent and fringing vegetation by rivers, streams, canals, ditches, lakes and ponds. It reproduces by seed, and spreads by stolons. In heavily grazed swards seed is produced virtually at ground level from secondary growth. Nationally it has appreciably declined because of drainage and the re-seeding of old grassland or its conversion to arable. European temperate element.

Listed as early as 1789 by reference to a record by Rev. Dr Burgess between Blackshaw and the Lochar water. This is very close to the area it is still recorded today on Caerlaverock NNR.

Site	Gridref	Date	Recorder
The 'Floders' Caerlaverock	NY02986519	24/07/2009	Miles, C.J.
The 'Floders' Caerlaverock	NY03456522	24/07/2009	Miles, C.J.

Also recorded in NY16

Ononis repens L.

Common Restharrow

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A rhizomatous perennial sub-shrub, widespread in grasslands on base-rich, well-drained, light soils, and also on calcareous boulder-clays. On the coast it occurs on sand dunes and shingle, and inland it is frequently a colonist of sandy or gravelly road verges. Nationally its distribution is stable. European temperate element.

First noted by the Rev. W. Little in 1834. While older inland records existed at the time of The Flora all recent records are for coastal sites. This species grows on the well drained sand and shingle sediments along the whole coast. Plants can be spiny (*var. horrida*) so care is required in distinguishing from *O. spinosa*. It is less frequent than the latter.

Site	Gridref	Date	Recorder
Caerlaverock	NY0265	1975	
Powfoot	NY16M	12/07/2009	Miles, C.J.
Annan Waterfoot	NY16X	28/08/2008	Miles, C.J.
Dornock south	NY26H	07/06/2009	Miles, C.J.
Baurch	NY26X	20/07/2014	Miles, C.J.
Lochmaben Stone	NY36C	08/09/2007	Miles, C.J.

Also recorded in NY17

Ononis spinosa L.

Spiny Restharrow

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A woody perennial of infertile calcareous grasslands on chalk, limestone and heavy calcareous clay soils. It also occurs on the coast in grazing marshes and on earthen sea-walls. Nationally it is probably declining, especially in S.E. England, because of agricultural improvements. However it may be over-recorded for spiny forms of *O. repens* var. *horrida*. Eurosiberian southern temperate element.

Known at the time of the atlas where listed by Dr. F.W. Grierson in 1882. The atlas does not distinguish locations for the two species. O. spinosa grows on heavier soils with more clay content than O. repens and is present on higher levels of the Solway merses.

Site	Gridref	Date	Recorder
Powhillon	NY06T	18/07/2009	Miles, C.J.
Brow Well	NY06Y	28/08/2010	Miles, C.J.
Riddingdyke	NY16H	10/07/2009	Miles, C.J.
Powfoot	NY16M	12/07/2009	Miles, C.J.
Newbiebarns	NY16S	09/07/2012	Miles, C.J.
Dornock south	NY26H	07/06/2009	Miles, C.J.
Eastriggs Depot	NY26S	11/07/2012	Miles, C.J.
Lochmaben Stone	NY36C	08/09/2007	Miles, C.J.

Ophioglossum vulgatum L.

Adder's Tongue

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Scarce, declining

A rhizomatous, deciduous fern found on mildly acidic to base-rich soils in open woodland,

meadows and damp pastures, and on sand dunes, under *Pteridium* on heaths, and on peat in regularly mown fen. Nationally it has been lost from many lowland sites where the intensification of agriculture, grazing and drainage have contributed to its decline. Circumpolar temperate element, with a disjunct distribution.

Listed by W. Keddie in 1854 from Beldcraig. This inconspicuous fern has been recorded very infrequently. It occurs in old pasture and may have been lost from many former sites because of more intensive management.

Site	Gridref	Date	Recorder
Burnfoot	NX974909	28/05/1999	Harrison, P.
Eskrigg Reserve, Lockerbie	NY18	18/05/1997	Miles, C.J.
Chapelcross grounds NY26E	NY26E	26/06/2009	Miles, C.J.

Also recorded in NT00, NT10, NY08, NY38.

Origanum vulgare L.

Wild Marjoram

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare

This herbaceous perennial herb of dry, infertile, calcareous soils is found in grassland, hedge banks, and scrub, and is a colonist of bare or sparsely vegetated ground, including quarries and road verges. It is occasionally naturalised from gardens. Nationally it has declined slightly except in the main areas of chalk and limestone soils. Eurasian southern temperate element; widely naturalised outside its native range.

Noted by Dr. Singer in 1843 (but with the note escaped). In a few locations along river banks where there is calcareous influence.

Site	Gridref	Date	Recorder
Old Irvine (NY38Q)	NY37328098	08/09/2013	Miles, C.J.

Also recorded in NY18, NY37 (1958)

Orobanche rapum-genistae Thuill.

Greater Broomrape

National Status: Scarce, Near Threatened.

Status in Dumfriesshire: Scarce.

A perennial root parasite of leguminous shrubs, especially *Ulex europaeus* and *Cytisus scoparius*, but also known to occur occasionally on *Genista tinctoria*. Its habitat, governed by that of its hosts, is mainly scrub, but hedge banks and track-sides are also favoured. Nationally this species suffered a dramatic decline in the 19th and early 20th century. This is largely unexplained, although changes in land-use were probably at least partly responsible. The decline appears to have halted by 1950, and subsequently populations have been found at a greater rate than they have been lost. Suboceanic southern temperate element.

The first record for Dumfriesshire is from Jardine Hall by Sir W. Jardine (as *O. major*) in 1866. It was also known from a number of other sites in lower Nithsdale where it still

persists. It does not seem to have survived in the original Annandale site so it is now found only in lower Nithsdale. As it is parasitic on broom and gorse and both can be temporary on any site the *Orobanche* appears able to survive for long periods before reappearing when the host plant reinvades for example after woodland clearance. The Dumfriesshire sites are probably the only Scottish locations for this impressive plant.

Site	Gridref	Date	Recorder
Dunscore	NX8584	1957	Milne-Redhead, E.W.B.H.
Glenmidge NX88Y	NX882863	25/07/2008	Miles, C.J.
Cluden	NX9379	1846	Grey, P.
Dumfries Town north (NX97T)	NX97917785	09/09/2013	Miles, C.J.
Georgetown (NX97X)	NX99497428	28/07/2014	Miles, C.J.
Auldgirth (NX98D)	NX908861	19/06/2005	Miles, C.J.
Lochar landfill (NY07D)	NY0133977739	01/07/2011	Miles, C.J.
Racks Moss	NY0373	14/10/1976	Martin, J.D.S.
Amisfield	NY0083	19/06/1993	Foley, M.J.Y.
Jardine Hall Mains	NY1087	1866	Jardine, W.

Orthilia secunda (L.) House

Serrated Wintergreen

National Status: Not Scarce, Least concern.

Status in Dumfriesshire: Scarce.

A rhizomatous, mycorrhizal, evergreen perennial herb, of damp *Calluna*- and *Vaccinium*-dominated communities, mostly in *Pinus* and *Betula* woodland but also on open moorland. It also grows in clefts and on ledges in rocky gullies, and on rocky stream banks. Flowering is often erratic. Distribution has been reduced historically by fire, grazing and other moorland management practices. However, it is not clear whether it has continued to decline since 1970. Circumpolar boreal montane element.

First listed by Rev. Dr. Singer in 1843 at two sites where it has not been re-recorded to date. This has never been common or present in any quantity.

Site	Gridref	Date	Recorder
Garpol	NT00	1843	Singer, Dr. Rev.
Beld Crag	NT10	1843	Singer, Dr. Rev.
Black Hope	NT1312	06/07/1956	Ratcliffe, D.A.
Carrifran (NT1512)	NT1512	28/06/1998	BBS Alpine Meeting
Tail Burn	NT182150	00/00/1957	Ratcliffe, D.A.
Bloody Cleuch Linns			
(Mosspeeble Burn)	NY408934	13/03/2002	Corner, R.W.M & Ratcliffe, D. A.

Oxyria digyna (L.) Hill

Mountain Sorrel

National Status: Not Scarce, Least concern.

Status in Dumfriesshire: Scarce.

Perennial herb of damp, ungrazed mountain ledges and wet shaded gullies Usually occurs above 150 m. Nationally its population appears stable. Circumpolar arctic montane element.

First listed by Rev. Dr Singer in 1843 at the Grey Mares Tail. In Dumfriesshire it is restricted to the Moffat Hills where it survives on ledges out of reach of graziers. At Carrifran, as a result of stock removal it has been expanding into scree down water courses.

Site	Gridref	Date	Recorder
Corehead tetrad B (NT11B)	NT1017213569	08/08/2010	Miles, C.J.
Upper Coomb Craig, Moffat			
Hills SSSI	NT122119	24/05/2007	Waddell, J.
Black Hope (NT11G)	NT1258112529	25/07/2010	Miles, C.J.
Black Hope (NT11G)	NT1237913416	25/07/2010	Miles, C.J.
Redgill Craig monad (NT1312)	NT13511227	16/08/2015	Miles, C.J.
Whirly Gill	NT1313	07/09/2014	Miles, C.J, Miles, A,J.
Moffat Hills SSSI, Carrifran,			
Raven Craig (gully)	NT14411381	05/09/2008	Waddell, J. Holme, R.
Carrifran (NT11L)	NT1514713121	26/06/2011	Miles, C.J.
Moffat Hills SSSI, Firthhope			
Burn	NT15221452	10/06/2004	Rae, D.A.
White Coombe monad 1615			Roberts, J., Brown, P., Miles C.
(NT1615)	NT16781549	22/06/2014	Jeremy Brown, Phil Miles, Chris
Mid Craig Monad (NT1616)	NT16321654	08/08/2015	Miles, C.J, Miles, A,J.
Dobs Linn (NT11X)	NT1915	03/07/2011	Miles, C.J.

Paris quadrifolia L.

Herb Paris

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Scarce, declining.

A native rhizomatous, perennial herb of moist, calcareous, usually ancient, woodland, and occasionally found in grikes on open limestone pavement. It flowers and fruits most freely in the open stages of the coppice cycle, but persists in deep shade, and is well adapted to such conditions in managed woodland. Nationally declining through the destruction of woodland and conifer planting. However, it may spread into secondary woods that are adjacent to primary woodland. Eurosiberian boreo temperate element.

It was first listed from Tinwald in 1843 by Rev. Dr. Singer. Several other locations were reported across the county in the nineteenth century. However it has not been seen since 1967 despite searching old sites. It was almost certainly lost at the last site recorded due to conifer planting in the native woodland (R Corner pers. com). This is a likely cause of loss elsewhere.

Site	Gridref	Date	Recorder
Laight Hill	NX815956	17/05/1959	Milne-Redhead, H.
VC72 Dumfriesshire	NX96	-1896	Rob, C.M.
Tinwald	NY08	1843	Singer, Rev Dr.

Scroggs	NY1681	1922	Wightman, A.
Kirkconnel Lee, Kirtle Water	NY248760	10/05/1959	Milne-Redhead, H.
Springkell	NY2575	29/5/1880	Paul, J.A.
Lyneholm	NY29	03/06/1967	Corner, R.W.M.

Persicaria minor (Hudson) Opiz.

Small Water Pepper

National Status: Not Scarce, Vulnerable.

Status in Dumfriesshire: Scarce.

An annual of wet marshy places, winter-flooded ground beside ponds, lakes and ditches, or damp pastures. It is found on a wide range of soils, from nutrient-rich muds in pastures to sandy and gravelly lake shores. Nationally the plant appears to have slightly increased its range westwards and northwards, although this may be an artifact of better recording. Eurasian temperate element.

First recorded at Lochar Moss in 1839 by J. Cruickshank. It has only been recorded in a few other sites but needs looking for as it can be confused with P. hydropiper. As an annual it is prone to not appearing during wet years when water levels stay high.

Site	Gridref	Date	Recorder
Loch Urr	NX758845	03/08/1988	Stewart, O.M.
Loch Urr	NX760845	10/09/1996	Day, J. Willby, N.J.
Kirkmahoe, nr The Tooks	NX956825	15/09/1957	Milne-Redhead, H.
Loch Ettrick	NX944937	02/09/1996	Day, J. Willby, N.J.
Lochar Moss	NY07	1839	Cruickshank, J.

Also recorded in NY38 (1956)

Persicaria vivipara (L.) Ronse Decr.

Alpine Bistort

National Status: Not Scarce, Vulnerable.

Status in Dumfriesshire: Scarce.

Perennial herb, usually found on base-rich substrates and less frequently in acidic conditions. It grows on wet rocks, consolidated screes, in grassland and in damp flushes in the mountains, and it is often abundant in montane pastures. Reproduction is mostly by bulbils at the base of the inflorescence, frequently carried down to lower levels by streams. Nationally its distribution is stable. Circumpolar Boreo-arctic Montane element.

First listed by the Rev. Dr Singer from 1843 and also from several locations in the Moffat Hills in The Flora by J.T. Johnstone. Occurs in grassland on rocky ledges or where there is a calcareous flush. Usually in small quantity but the Selcoth population is substantial.

Site	Gridref	Date	Recorder
Dinabid Linn, Dalveen	NS8908	07/07/1984	McCosh, D.J.
Corehead tetrad W (NT01W)	NT0844913498	08/07/2010	Miles, C.J.
Selcoth Burn (NT10N)	NT14820670	24/06/2012	BSBI Talla Selcoth Field

			Meeting
Hopetoun Craig (NT10Y)	NT1860406360	05/09/2010	Miles, C.J.
Ettrick Pen	NT197074	31/10/1979	Corner, R.W.M.
Nether Coomb Craig, Moffat			
Hills SSSI	NT12681144	24/05/2007	Waddell, J.
Falcon Craig (NT11G)	NT1258112529	03/08/2010	Miles, C.J.
Carrifran (NT11L)	NT1551912225	21/08/2010	Miles, C.J.
White Coombe monad			Roberts, J., Brown, P., Miles
(NT1615)	NT16801551	22/06/2014	C.
Bloodhope Head (NT20J)	NT22030870	21/07/2012	Miles, C.J.
Tomleuchar Burn, Eskdalemuir,			
E of	NT242063	23/08/1967	Corner, R.W.M.
Trowgrain Middle (NT21C)	NT20481573	06 Sep 2015	Miles, C.J.

Phleum arenarium L.

Sand Cat's Tail

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

An annual of coastal sand dunes and sandy shingle, usually on mobile or semi-fixed dunes and frequently associated with winter-annuals. Also inland on open grass-heaths, wind-blown sand banks and other disturbed, open, sandy areas. Nationally its population is stable. European southern temperate element.

It is listed by Dr Davidson in 1890 from Sanquhar, presumably on heathland. It has also been recorded (post 1950 and pre 1969) in NY26 but without a definite locality or recorder. It is present in the same square on the Cumbrian shore so should be looked for. In Cumbria it is found on sandy shores.

Site	Gridref	Date	Recorder
Braeheads, Sanquhar	NS71	1885	Scott - Elliot, G.F.

Also recorded in NY26

Platanthera bifolia (L.) L.C.M.Richard

Lesser Butterfly Orchid

National Status: Not Scarce, Vulnerable. Status in Dumfriesshire: Scarce, declining.

A native perennial herb of heathy pastures, grassland, open scrub, woodland edges and rides, and on moorland, often amongst *Pteridium*; it is found on a wide variety of acidic and calcareous soils overlying sands, gravels and clays. It is tolerant of considerable soil moisture, also being found in acidic bogs and calcareous fens. Nationally this species has suffered a considerable decline caused by drainage, woodland disturbance and agricultural intensification, and upland populations have also been lost to increased grazing. Eurasian boreo temperate element.

It was first listed by W. Keddie in 1854 from the Beld Craig. It was known from more sites in The Flora but has only been re-recorded in a small number of locations since. This species is likely to have been lost to agricultural intensification or forestry. This is illustrated by its recent discovery within the Chapelcross site. Here the orchids are growing in old grassland that was part of a second world war airfield and subsequently became the nuclear plant escaping agricultural improvement. It may have been lost from other grassland sites in this part of Annandale.

Site	Gridref	Date	Recorder
Mennock	NS812081	30/06/1968	BSBI Field Meeting
Beld Craig	NT10	1854	Keddie, W.
Town Moor, Annan	NY1671	29/06/1975	Martin, M.E.R.
The Haggs, Ecclefechan	NY1874	12/07/1979	Foreman, J.
Chapelcross grounds	NY26J	26/06/2009	Miles, C.J.
Chapelcross grounds NY27A	NY21597022	16/07/2013	Miles, C.J.

Also recorded in NT10, NY18 (1941),

Platanthera chlorantha (Custer) Rchb.

Greater Butterfly Orchid

National Status: Not Scarce, Near Threatened.

Status in Dumfriesshire: Rare.

This native perennial herb is found in a wide variety of habitats, usually on well-drained calcareous soils. Typical habitats include downland, rough pasture, hay meadows, scrub, woodland and young plantations. It sometimes occurs on sand dunes and railway embankments. Rarely, it grows on slightly acidic soils in moorland and wet, heathy pasture. Nationally *P. chlorantha* was lost from many sites during the 20th century. Reasons include the felling, disturbance and coniferisation of woodland, and the agricultural improvement of pasture and scrub. It may be lost from woodland if the canopy becomes too dense. European temperate element.

Listed by W. Stevens in 1848 from Drumlanrig. It was known from more sites in The Flora but has only been re-recorded in a small number of locations since. This species is likely to have been lost to agricultural intensification or forestry.

Site	Gridref	Date	Recorder
Mennock NS80E	NS8071208000	05/07/2009	Miles, C.J.
Drumlanrig	NX89	1848	Keddie, W.
The Haggs, Ecclefechan	NY1874	12/07/1979	Foreman, J.

Also recorded in NY37

Poa compressa L.

Flattened Meadow Grass

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

Native perennial herb of dry rough ground, banks, waysides and walls. Probably under-

Rare Plant Register

recorded and thus difficult to assess in terms of national distributional trends. European temperate element; widely naturalised outside its native range.

Only two records for this species with the first by Milne-Redhead in 1959. In Cumbria often a plant of man made habitats. Probably under recorded.

Site	Gridref	Date	Recorder
Cowhill, River Nith	NX953824	31/05/1959	Milne-Redhead, H.
Annan West (NY16Y)	NY196665	2004	Stanley, P.

Polygonum oxyspermum subsp. raii (Bab.) D.A. Webb and Chater Ray's Knotgrass

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A native prostrate annual, biennial or short-lived perennial of sand, shingle or shell beaches, sometimes found on other open sandy ground near the sea, usually just above the limit of the highest tides. Like many strand-line species, its numbers often fluctuate annually and nationally it is believed to be under-recorded. European Wide-temperate element; also in N. America.

First recorded by G. F. Scott Elliot along the shore between Browhouses and the Kirtle water and still present there today. This is a plant of sandy substrates by the sea.

Site	Gridref	Date	Recorder
			Martin, M.E.R. Martin,
Powfoot, E side	NY152657	1975	J.D.S.Little, R.
Newbiebarns	NY16S	09/07/2012	Miles, C.J.
Annan Waterfoot	NY16X	28/08/2008	Miles, C.J.
Baurch	NY26X	20/07/2014	Miles, C.J; Miles, A.J.

Polypodium cambricum L.

Southern Polypody

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A perennial, rhizomatous fern of well-drained base-rich rocky substrates, often found on sheltered limestone cliffs, old quarry faces, castle walls built of limestone, and on old mortared walls. It is also found as an epiphyte, especially in Ireland, and on road banks. Nationally its distribution is probably stable, although better recent recording may mask changes. Mediterranean Atlantic element.

The first record was made by Alan Stirling and Alison Rutherford in 1972 at Maidenbower Craigs. It is still present in this location where it is on a sheltered sandstone rock face.

Site Gridref	Date F	Recorder
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Georgetown (NX97X)	NX98877465	05/07/2013	Miles, C.J., McKinnel, J.

Polypodium interjectum Shivas

Intermediate Polypody

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

An evergreen, perennial, rhizomatous fern that prefers more basic substrates than *Polypodium vulgare* but can be found in acidic conditions where exposed to salt-laden air. It is found in a wide range of habitats such as mortared stone walls, hedge banks, rock exposures, mature sand dunes and as an epiphyte, especially near the sea. Probably under-recorded. Suboceanic temperate element.

This does not appear to have been recorded at the time of The Flora and is probably still under recorded today. Found in similar places to *P. vulgare* but has a preference for walls.

Site	Gridref	Date	Recorder
Mountainblow+Auchencat Burn	NT01V	27/05/1988	Martin, M.E.R.
Beldcraig Glen	NT10A	29/05/2006	Miles, C.J.
Glencrosh	NX78U	30/09/1987	Martin, M.E.R. Muir, J.
			Miles, C., Higginbottom, C.,
Woodhouse, Cairnwater	NX88N	12/07/1998	McIntosh, J.
Springfield	NX895849	12/07/1988	NCC woodland survey
Maidenbower Craigs	NX986746	28/07/1972	Stirling, A.McG. Rutherford, A.
			Stewart, O.M., McCosh, D.,
Caerlaverock Area	NY06	02/08/1996	Stirling, A.McG.
Burnfoot area	NY38J	31/08/1987	Martin, M.E.R.

Polystichum lonchitis (L.) Roth.

Holly Fern

National Status: Not Scarce, Vulnerable.

Status in Dumfriesshire: Rare.

This native evergreen species is a calcicole, growing in well-drained, cool and moist positions at the base of cliffs, on rocky ledges, and particularly in stabilised boulder-scree. It also grows in deep grikes of limestone pavements. *P. lonchitis* is a poor competitor, but is long-lived once established. Nationally there has been little evidence of a change in its distribution over the last 50 years. Circumpolar boreal montane element, with a disjunct distribution.

Known since 1872 when reported by S. Halliday from Blacks Hope. It has continued to be recorded from this location. D.A.R. Ratcliffe reported 20 plants in 1954-56.

Site	Gridref	Date	Recorder
Black Hope	NT125125	02/09/1978	Hall, E.G.

Potamogeton alpinus Balb.

Red Pondweed

National Status: Not Scarce, Least concern. Status in Dumfriesshire: not scare, declining

A perennial of still or slow-flowing water in lakes, rivers, canals, ditches and flooded mineral workings. It is often found in sites where silt accumulates, such as lake inflows or backwaters in rivers. It characteristically grows in mesotrophic, often neutral or mildly acidic water. Many of the sites from which the species has been lost are small ponds, pits and ditches where it was last seen in the 19th century. There have been some further losses from eutrophication, but the distribution elsewhere appears to be stable. Circumpolar boreal montane element.

First reported in 1836 from the Lochar Moss by J. Cruickshank. A plant of standing or more gently flowing water with some enrichment and soft sediment.

Site	Gridref	Date	Recorder
Friarminnan Square	NS71J	01/08/2004	Miles, C.J.
Loch Urr	NX78S	11/09/2009	Miles, C.J.
Dalgonar Bridge, Cairn Water	NX860841	22/08/1959	Milne-Redhead, H.
Drumlanrig Castle	NX89P	12/05/2012	Miles, C.J.
Morton Loch	NX891992	26/08/1996	Willby, N.J. Lassiere, O.L.
Lochar Moss	NX97	7/1836	Cruickshank, J.
Lake Manitou, Rammerscales	NY076770	23/08/1974	Martin, M.E.R.
Meikleholm Loch	NY039897	07/07/1987	Martin, M.E.R.
Mill and Blind Lochs	NY08R	13/07/2014	Miles, C.J.
Hightae NR, Lochmaben	NY084803	1976	Martin, M.E.R.
Castle Loch	NY088816	-1999	Martin, M.E.R.

Potamogeton graminius L.

Various Leaved Pondweed

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

Perennial found in relatively shallow water in a variety of water bodies, including lakes, reservoirs, rivers, streams, canals and ditches. It tolerates a wide range of water quality, although it is absent both from the most acidic and oligotrophic sites and from the most eutrophic. It has declined in England since 1930 in areas where eutrophication and the conversion of grazing land to arable have reduced the number of suitable ditches but elsewhere its population is probably stable. Circumpolar boreo temperate element.

First recorded from the Dumfries area by A. Davidson in 1885 (as *P. heterophyllus*) and repeatedly from Mill Loch Lochmaben since it was first seen there in 1957 by F. Balfour Brown.

Site	Gridref	Date	Recorder
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Dumfries	NX97	1885	Davidson, A.
Mill and Blind Lochs	NY08R	13/07/2014	Miles, C.J.

Potamogeton pectinatus L.

Fennel Pondweed

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

This native rhizomatous, linear-leaved aquatic is a characteristic species of eutrophic or brackish waters, where it may form dense stands in lakes, reservoirs, rivers, streams, canals, ditches, ponds and flooded mineral workings. It is tolerant of disturbance in canals and navigable rivers. It is occasionally found in highly calcareous but nutrient-poor lakes. Nationally its distribution is stable. Circumpolar Wide-temperate element.

First recorded in Dumfriesshire in 1971by H. Proctor at Hightae Mill Loch and later in nearby Castle loch. It was only found in a brackish pool in 2014 at Caerlaverock NNR. This is its more typical habitat in the north and west of Britain,.

Site	Gridref	Date	Recorder
Caelaverock East Park (NY06M)	NY03956510	06/07/2014	Miles, C.J.
Eastpark WWT Centre Monad	NY0565	11/06/2015	Miles, C.J.
Castle Loch and Motte	NY08W	18/07/2003	White, A., Miles, C.J.
Castle Loch	NY088816	-1999	Martin, M.E.R.
Hightae Mill Loch	NY085800	1974	Martin, M.E.R.

Potamogeton praelongus Wulfen

Long Stalked Pondweed

National Status: Not Scarce, Near Threatened.

Status in Dumfriesshire: Rare.

No *Potamogeton* species is more characteristic of deep water than *P. praelongus*. It is a native rhizomatous perennial that usually grows at depths greater than 1 m in clear, mesotrophic water in lakes, rivers, canals and major drains. It has only rarely been recorded from shallow water. Nationally *P. praelongus* appears to have been lost from many due to eutrophication. As a species of deeper water it can be inconspicuous, and it may be under-recorded. Circumpolar boreal montane element.

Only one record exists for this declining species from the Upper Loch. It prefers deep water which is why it may be under recorded. It may be present in the other deep lochs nearby.

Site	Gridref	Date	Recorder
Upper Loch	NY071833	15/07/1984	Martin, M.E.R.

Potamogeton pusillus L.

Lesser Pondweed

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A perennial found in standing or slowly flowing water in sheltered lakes and reservoirs, ponds, rivers, canals, ditches and flooded mineral workings. It favours mesotrophic to eutrophic water and tolerates slightly brackish conditions. Because of confusion with *Potamogeton berchtoldii* prior to the 1930s assessment of changes in distribution are based on very limited evidence. However the species may have increased in some areas, perhaps in response to eutrophication. Circumpolar southern temperate element.

Listed for Dumfriesshire by P. Gray in 1842 from the Dumfries area. It has been found a few times since in the Lochmaben area and recently in brackish pools at Caerlaverock.

Site	Gridref	Date	Recorder
Eastpark WWT Centre Monad	NY05336591	11/06/2015	Miles, C.J.
Brocklehirst	NY051738	22/07/1962	Balfour-Browne, F.L.
Hightae Mill Loch	NY0880	22/08/1974	Martin, M.E.R.
Castle Loch NR,Lochmaben	NY088816	1976	Martin, M.E.R.
Kirk Loch,Lochmaben	NY080823	20/06/1988	Martin, M.E.R.
			Stewart, O.M., Miles, C.,
Kinmount NY16P	NY16	10/08/1996	Stirling, A.McG.
Crossmungo Moss (NY3483)	NY34598385	30/05/2015	Miles, C.J; Miles, A.J.

Also recorded in NX99 (1980)

Potentilla argentea L.

Hoary Cinquefoil

National Status: Not Scarce, Near Threatened.

Status in Dumfriesshire: Rare.

A perennial of dry, freely-draining, gravelly or sandy soils, found in open grassy swards on commons, in pastures, on banks, in pits and on tracks and waste ground. Reproduction is by seed, but it does not readily colonise new sites. Nationally it may still be in slow decline, largely due to habitat loss. Eurosiberian temperate element; widely naturalised outside its native range.

Recorded once only in the Dalton area between 1957 and 1990. The quarry has been reclaimed and conditons may no longer suite the species.

Site	Gridref	Date	Recorder
Dalton, Dormont quarry	NY1174	17/06/1990	Martin, M.E.R.

Potentilla crantzii (Crantz) Beck ex Fritsch

Alpine Cinquefoil

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Rare

A native perennial herb of dry base-rich rock faces, cliffs and ledges, close-grazed calcareous grassland and, occasionally, river shingle. It is a pseudogamous apomict, reproducing mostly by seed, with very limited vegetative spread. Nationally the distribution of this species seems

to have been stable in recent years. Eurosiberian boreo arctic montane element; also in N. America.

This was first recorded in 1890 by J.T. Johnstone from the Moffat Hills and Lochanburnside. This is a member of the montane community with a very limited presence in the Southern Uplands. It is found in areas where there is calcareous seepage and always in limited quantity.

Site	Gridref	Date	Recorder
Lochanburnside	NT01	1890	Johnstone, J.T.
Moffat Hills	NT1211	26/06/2005	Jannink, M. Stanley, P.D.
Black Hope (NT11G)	NT1258112529	25/07/2010	Miles, C.J.
Blackhope,W side	NT1311	18/06/1989	Corner, R.W.M. Lang, H.A.
Carrifran Burn,Raven Craig	NT143136	06/04/1953	Ratcliffe, D.A.
Moffat Hills SSSI, Midlaw Linn	NT16111620	02/07/2004	Rae, D.A.

Pseudorchis albida (L.) Á. and D. Löve.

Small White Orchid

National Status: Not Scarce, Vulnerable. Status in Dumfriesshire: Scarce, declining.

A tuberous native perennial herb of well-drained hill pastures, streamsides, mountain grasslands and cliff ledges on a range of dry, acidic or calcareous soils; also on recently burnt moorland, but not persisting when *Calluna* regrows. Rarely, it occurs in acidic *Quercus* woodland. Nationally many lowland sites for *P. albida* were lost before 1930 due to habitat destruction, agricultural improvement and overgrazing. There have been continued losses since then, although it is now much better recorded. However, it is inconspicuous and may be under-recorded in some areas, especially in the uplands. European boreal montane element; also in N. America.

First listed for Dumfriesshire in 1848 by W. Stevens from Penpont and Queensbury. This appears to have suffered a huge decline since The Flora was written. The preferred habitat of hill ground has been prone to drainage, more intensive grazing and conversion to conifer plantation.

Site	Gridref	Date	Recorder
Euchan Waterfall	NS70	1896	Davidson, A.
Mennock, nr	NS812081	30/06/1968	Milne-Redhead, H.
Glendyne Burn, by	NS817094	01/07/1988	Fleming, L.V.
Garpol	NT00	1896	Johnstone, J.T.
Beld Craig	NT10	1896	Keddie, W.
Penpont	NX89	1848	Stevens, W.
Queensbury	NX99	1848	Stevens, W.

Also recorded in NS71 (1968), NT01, NT1, NY16

Pulicaria dysenterica (L.) Bernh.

Common Fleabane

National Status: Not Scarce. Least Concern.

Status in Dumfriesshire: Rare.

A perennial of damp or wet, open habitats including marshy places, water- and fen-meadows, tall-herb fens, by rivers, streams, canals and ditches, in dune-slacks, wet hollows and seepages on sea-cliffs, damp woodland rides and roadside verges. It is found on a wide range of acidic and base-rich soil types. Nationally the distribution of *P. dysenterica* is stable. Eurosiberian southern temperate element.

Only one record exists for this species which is near to its northern limit in the UK in Southern Scotland.

Site	Gridref	Date	Recorder
R Annan,.5km lengths			
above+below 35163727	NY163727	11/07/1981	Holmes, N.T.H.

Pyrola minor L.

Common Wintergreen

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A native rhizomatous, mycorrhizal, perennial evergreen herb. In S. England it is a plant of damp woodlands with deep litter, on a variety of soils; elsewhere it occurs in damp places in heaths, plantations, disused railways, on rock ledges and in sand dunes. Nationally this species has declined throughout its scattered British range through changes in land use and management. The small, southern woodland populations appear particularly vulnerable, with recent losses as sites have become too dry. Circumpolar boreal montane element.

First recorded by J. Shaw in 1882 at Druidhall Mill, Penpont. There were many locations listed in The Flora but this species has not been frequently recorded since. Its decline like other species is probably as a result of habitat loss though it will grow in mature open conifer plantations.

Site	Gridref	Date	Recorder
Lochan Burn	NT01	1896	Linton, E.F.
Laight Wood	NX8195	17/06/1978	Stirling, A.McG.
Boreland	NY165913	30/06/1976	Younger, C.
Kirtlebridge, nr	NY27	1957	Dony, J.G.
Wauchope Water	NY346835	1981	Watt, Dr G.
Longwood, River Esk S of	NY373826	16/06/1989	Martin, M.E.R.; Stewart, O.M.

Also recorded in NT00, NT10, NY08 (1942),

Ranunculus baudotii Godron.

Brackish Water Crowfoot

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

This annual or perennial herb grows in coastal water bodies, including lagoons, machair

lochs, ditches, pools, dune-slacks and borrow-pits. It is most frequent in water 0.5-1 m deep, but can grow in shallower water or as a dwarf terrestrial form on wet mud. Its inland sites include flooded mineral workings and canals. There is some evidence nationally of a long-term decline in some areas. European southern temperate element.

The first record for this species is from 1961 at Eastpark Wildfowl Centre. This is a brackish water specialist and so is restricted to coastal pools and ditches including in the higher parts of the saltmarsh.

Site	Gridref	Date	Recorder
Caelaverock East Park (NY06M)	NY04676508	06/07/2014	Miles, C.J.
Eastpark WWT Centre Monad	NY05456542	11/06/2015	Miles, C.J.
Lochmaben Stone	NY36C	08/09/2007	Miles, C.J.

Ranunculus fluitans L.

River Water Crowfoot

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

Perennial species which grows in large, rapidly flowing rivers with a stable substrate. It is usually found in base-rich and meso-eutrophic water. This is not a well-understood species and in some areas of Britain it may be under-recorded whereas in others it may be reported in error for other taxa. European temperate element.

Though listed in The Flora in 1858 the treatment of these fine leaved water buttercups was almost certainly different at the time of The Flora than in modern taxonomy. The first modern record by N. Holmes comes from the lower Annan in 1981. The species is probably more extensive in the river than currently mapped.

Site	Gridref	Date	Recorder
River Annan riverside walk	NY192686	10/07/1999	Miles, C.J.
R Annan,.5km lengths			
above+below 35102767	NY102767	11/07/1981	Holmes, N.T.H.
Hoddom Bridge, river Annan	NY163727	16/07/1999	Miles, C.J.

Ranunculus lingua L.

Greater Spearwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

Native perennial herb found in fens, marshes, the edges of ditches, ponds and rivers. Although nationally the plant has declined as a native, it is now frequently introduced and its distribution is now masked by this.

First listed in Dumfriesshire by Dr. Balfour in 1839. The Flora mentions the Lochar Moss and Lochmaben from which it has not been reported since. The recent record at Bridgeknowes Loch is at Drumlanrig where introduction is a possibility.

Site	Gridref	Date	Recorder
			Wood, D.C., McIntosh, J.,
Drumcruilton Loch	NX879026	11/07/1998	Blackman, L.
Bridgeknowes Loch	NX85779947	12/07/2015	Miles, C.J.

Ranunculus peltatus Schrank

Pond Water Crowfoot

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A perennial or sometimes annual species growing in slow-flowing streams and rivers, coastal lagoons, shallow lakes, ditches, ponds and dune-slacks. It grows in the upper reaches of highly calcareous rivers but in some areas favours base-poor waters; it has a broad trophic range. Due to identification difficulties and taxonomic uncertainty changes in distribution are difficult to assess. European wide temperate element.

Though referenced in The Flora the treatment of these fine leaved water buttercups was almost certainly different at the time of The Flora than in modern taxonomy. The first modern record for this species is from 1972 by H. Proctor at Copewood, River Annan. This species is more frequent in but not exclusive to standing water.

Site	Gridref	Date	Recorder
Kettleton Reservoir	NS80V	03/06/2011	Miles, C.J.
Loweberry Loch	NX882815	02/09/1996	Willby, N.J. Lassiere, O.L.
R Annan,.5km lengths			
above+below 35194677	NY194677	11/07/1981	Holmes, N.T.H.
Hoddom Bridge, river Annan	NY1672	17/07/1999	Walls, R.M.
			Stewart, O, Stirling, A.McG.,
River Annan riverside walk	NY1970	01/08/1996	Miles, C.J.
R Annan,.5km lengths			
above+below 35102767	NY102767	11/07/1981	Holmes, N.T.H.
Purdomestone Reservoir	NY214775	18/09/1996	Day, J. Willby, N.J.

Ranunculus pencillatus subsp. pseudofluitans (Syme) S.D. Webster

Stream Water Crowfoot

National Status: Not Scarce. Least Concern.

Status in Dumfriesshire: Scarce.

This is the dominant plant in many British base-rich rivers and streams, favouring moderately or rapidly flowing, mesotrophic or meso-eutrophic water, and being most frequent where the water flow is broken by riffles. In sluggish eutrophic rivers it is replaced by other species. The taxonomy of this subspecies has only been clarified recently and it is probably still under-recorded in some areas of Britain. Suboceanic temperate element.

Though the species is referenced in The Flora in 1891 the treatment of these fine leaved water buttercups was almost certainly different at the time of The Flora than in modern taxonomy.

The first modern record dates from 1979 (determined by N Holmes). It is probably more widespread and under recorded.

Site	Gridref	Date	Recorder
Whitesands (Dumfries), River Nith	NX972758	04/06/1989	Martin, M.E.R.
River Annan riverside walk	NY192686	10/07/1999	Miles, C.J.
Hoddom Bridge, river Annan	NY1672	17/07/1999	Walls, R.M.
Johnstonebridge	NY1091	21/09/1979	Martin, M.E.R.

Ranunculus trichophyllus Chaix ex Vill.

Thread-leaved Water-crowfoot

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A small annual or perennial which grows in shallow, still or very slowly flowing water. It is most frequent in ponds, dune-slacks and drainage ditches, but it is also found in larger sites if they are sheltered. It tolerates a range of water chemistry but is most frequent in mesotrophic or eutrophic water. Circumpolar wide boreal element.

Though referenced in The Flora in 1843 the treatment of these fine leaved water buttercups was almost certainly different at the time of The Flora than in modern taxonomy. The earliest modern record is from Brocklehurst by F. Balfour-Browne in 1952. More likely than other similar species in small slow flowing burns and ditches.

Site	Gridref	Date	Recorder
Kiddam Hill	NT20970283	02/08/2015	Miles, C.J.
Brocklehirst	NY0573	05/08/1952	Balfour-Browne, F.L.
Hartwood Moor	NY07U	06/09/2014	Miles, C.J; Miles, A.J.
R Annan,.5km lengths	NY194677	11/07/1981	Holmes, N.T.H.
above+below 35194677			
The Hewke	NY18P	11/08/2013	Miles, C.J.

Also recorded in NX99 (1957).

Rhynchospora alba (L.) Vahl.

White Beak Sedge

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Not Scarce, declining.

A perennial herb of base-poor acidic bogs, wet heaths and mires, often in association with *Sphagnum* species. It is intolerant of competition, preferring open sites, and is frequently found on bare wet peat, sometimes in shallow standing water. Declining in S. England but its distribution elsewhere seems largely stable. Circumpolar boreo temperate element.

First listed by G.N. Lloyd in 1831, though for Kirkconnel Moss which is now in Kircudbrightshire. Interestingly for such a distinctive plant it is only recorded from three sites in The Flora. This species remains well distributed on deep peat particularly where peat is

bare through disturbance such as trampling or around bog pools.

Site	Gridref	Date	Recorder
Heathhall	NX97Z	20/06/2008	Miles, C.J.
Longbridgemuir	NY06P	26/08/2012	Miles, C.J.
Racks Moss	NY02777095	02/06/2011	Waddell, J.
Racks Moss (NY07G)	NY0239972289	06/08/2011	Miles, C.J.
Racks Moss (NY07G)	NY0303273725	06/08/2011	Miles, C.J.
Spedlins Flow NY08Y (NY08Y)	NY0807487522	24/07/2011	Miles, C.J.
Lochwood Moss	NY080965	24/08/1972	Idle, E.T.
Priestside Flow	NY1265	04/08/1999	Miles, C.J.
Kelhead Flow	NY17	05/09/1999	Miles, C.J.
Torbeck Hill	NY37P	04/08/2013	Miles, C.J.
Hagg Hill	NY37U	04/08/2013	Miles, C.J.
Cockplay (NY38K)	NY35918059	04/08/2013	Miles, C.J.
Old Irvine	NY38Q	04/08/2013	Miles, C.J.

Also recorded in NY26

Ribes spicatum Robson.

Downy Currant

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A native shrub of northern limestone woods, streamsides, ravines and deep grikes in limestone pavement. The native distribution of this species is difficult to ascertain, as castouts from cultivation have occasionally become established in the wild. Because identification of this species can only be certain when flowers are present, it has been underrecorded in the past. This is probably still the case, as the flowering season is early. European boreo temperate element, with a continental distribution in W. Europe.

Only recorded once in 1955 by Dr G.Watt with no specific location given. It is uncertain whether this is a native plant in Dumfriesshire.

Site	Gridref	Date	Recorder
Recorded in NY38 (1955)			

Rosa spinosissima L.

Burnet Rose

National Status: Not Scarce, Least concern.

Status in Dumfriesshire: Scarce.

A low, suckering deciduous shrub most often found on sand dunes and sea-cliffs, but also inland on sandy and less acidic heaths, in scrub and hedgerows on chalk and limestone, and on basic cliff ledges in upland areas. Cultivars grown in gardens sometimes become naturalised. The distribution of this species is stable on the coast but it is declining inland. Eurasian temperate element, with a disjunct distribution; widely naturalised outside its native range.

First noted for Dumfriesshire in 1789 by Dr. Burgess near Cummertrees. In Scotland this is most common near the coast and very scattered on crags inland where it is still occasionally found. It is reported from a number of such sites in the Moffat Hills in The Flora and yet has not been recorded there since. It may have been lost as a result of fire and grazing. The plant at Foulbog may be a hybrid.

Site	Gridref	Date	Recorder
Corserig Hill	NS70E	04/08/2007	Miles, C.J.
Brockholm, nr	NS8206	18/08/1975	Martin, J.D.S.
Threewater Foot	NT00W	02/07/2006	Miles, C.J.
Foulbog (NT20N)	NT2469406732	20/08/2011	Miles, C.J.
Moniavie, Auchenstroan Craig	NX6991	1960	Stirling, A.McG.
Low Auldgirth	NX9186	10/06/1998	Miles, C.J.
Powfoot	NY1465	13/06/1975	Darke, H. Pringle, E.

Also recorded in NT11 and NY26

Rubus caesius L. Dewberry

National Status: Not Scarce, Least concern.

Status in Dumfriesshire: Rare.

Deciduous shrub of hedges, woodland borders and rides, scrub, dry grassland and semi-stable dunes, mainly on basic soils; also in fen carr. Nationally there seem to have been declines in the north and west of its range, and in Ireland. Eurosiberian temperate element; widely naturalised outside its native range.

Only recorded twice, the first time in 1957, by T.G. Collett. This is a distinctive member of the Rubi but still requires some care to distinguish it from close relatives. It is probably under recorded as a result.

Site	Gridref	Date	Recorder
Hartfell Spa+Auchencat Burn	NT01	04/08/1957	Collett, T.G.

Also recorded in **NY16** (1963)

Rumex crispus subsp. littoreus (J. Hardy) Akeroyd

Curled Dock

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

Perennial herb of shingle beaches, sandy and rocky shores, banks by the sea, sand dunes and the upper part of saltmarshes. It is most frequent in strand-line communities on shingle. This taxon has only been recorded systematically since it was treated as a subspecies in 1991 and is probably under-recorded. Nationally its distribution is almost certainly stable. Oceanic temperate element.

A distinctive subsp. of R. crispus with glaucous fleshy leaves and differences in fruit. On the strand line on shingle/sand. It is probably elsewhere on the coast.

Site	Gridref	Date	Recorder
Newbiebarns	NY16S	09/07/2012	Miles, C.J.
Annan Waterfoot	NY16X	28/08/2008	Miles, C.J.
Eastriggs	NY26M	05/09/1996	Miles, C.J.

Ruppia maritima L.

Beaked Tasselweed

National Status: Not Scarce, Least concern.

Status in Dumfriesshire: Rare.

A submerged, annual or perennial aquatic of brackish waters, *R. maritima* grows in shallow water in coastal lakes, pools on saltmarshes, rock pools, creeks and ditches near the sea. It is also found as a dwarf variant on tidal mud-flats, especially in N.E. Scotland. *R. maritima* had been lost from many sites before 1930, and this loss has continued in the southern part of its range around coastal developments. Circumpolar wide temperate element.

In The Flora it was recorded in Gillfoot Bay just across the Nith from Caerlaverock in Kircudbrightshire. The first record from the Dumfries side of the Nith was in 1960 on Caerlaverock NNR. This plant grows in brackish coastal pools on the merse.

Site	Gridref	Date	Recorder
Caerlaverock NNR	NY06H	22/07/1999	Miles, C.J.
Priestside Merse	NY103658	17/09/1972	Milne-Redhead, H.
Powfoot	NY1465	05/06/1975	C.S.S.F.Meeting

Sagina maritima Don

Sea Pearlwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A native annual of maritime rock crevices, cliff-tops, stabilised shingle, dune-slacks and disturbed areas in upper saltmarsh on sandy substrates; also on walls and tracks, in pavements and on sandy roadsides near the sea. Nationally there has been little significant change in the distribution of this species over the last 50 years. It has recently been recorded from inland squares beside salt-treated roads. European southern temperate element.

The first record for Dumfriesshire appears to be H. Milne-Redhead's from 1958. It grows on sandy ground in higher levels of the merse, though care is needed as S. procumbens is also present in this habitat.

Site	Gridref	Date	Recorder
Caerlaverock NNR	NY06	1958	Milne-Redhead, H.
Priestside Merse	NY103658	17/09/1972	Milne-Redhead, H.
Powfoot	NY1465	05/06/1975	C.S.S.F.Meeting

Annan Waterfoot NY16X	NY16X	28/08/2008	Miles, C.J.
Eastriggs Depot	NY26S	11/07/2012	Miles, C.J.

Sagina subulata (Sw.) C. Presl

Heath Pearlwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

Perennial, mat-forming herb usually of dry, open, sandy or gravelly places. Habitats include heaths, dry pastures, banks and rocks, grassy slopes near the sea, and especially trackways through heaths and moors. Nationally many inland sites have been lost however there is little evidence of decline in coastal areas. European temperate element.

First recorded in Dumfriesshire on the Beeftub road out of Moffat in 1890 by J.T. Johnstone. This species was not then seen for over 100 years. It likes open bare stoney ground and has been found as a colonist on forestry tracks where it may be spreading.

Site	Gridref	Date	Recorder
Crawick	NS71Q	15/06/2014	Miles, C.J.
Beef Tub Road	NT01	1890	Johnstone, J.T.
Big Strushel Burn NT10W	NT10W	02/06/2007	Miles, C.J.
Stroanshalloch	NX79A	11/06/2011	Miles, C.J.
Stidriggs Wood	NY09U	07/07/2013	Miles, C.J.

Salicornia europaea L.

Common Glasswort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

An annual found at all levels of sandy or muddy saltmarshes, in saltmarsh-sand dune transitions and wet, tidally inundated dune-slacks; also, more rarely, in relict saltmarsh and other open saline areas behind sea-walls. A taxonomically uncertain taxon and thus national distributional trends are uncertain. Circumpolar wide temperate element.

Listed (as *S. herbacea*) in The Flora by Rev. Dr. Singer 1843. Records include the aggregate given the difficult taxonomy of the group but this is likely to be the commonest species colonising bare mud and creeks at the lowest levels in the saltmarsh. It can form extensive stands.

Site	Gridref	Date	Recorder
Castle Wood	NY06H	16/07/2008	Miles, C.J, Wilson, B., Kennedy, D.
Caerlaverock	NY058650	11/08/1970	Ranwell, D.S.
Brow Well	NY06Y	28/08/2010	Miles, C.J.
Annan Waterfoot NY16X	NY193646	28/08/2008	Miles, C.J.
Lochmaben Stone	NY36C	08/09/2007	Miles, C.J.

Salicornia ramosissima Woods

Purple Glasswort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

This morphologically highly variable annual is usually found in the middle and upper zones of saltmarshes, salt-pans, creeks and drift-lines. It also occurs on firm sand and muddy shingle, and behind sea-walls in open areas of brackish grazing marsh. A taxonomically uncertain taxon and thus national distributional trends are uncertain. Circumpolar Widetemperate element.

Not recorded until 1975 when found by Mary Martin. This is distinctive from S. europaea and likely to be more widespread along the coast. Possibly likes greater shelter than S europaea hence favouring the inner Solway rather than the exposed mudflats at Caerlaverock.

Site	Gridref	Date	Recorder
Brow Well	NY06Y	28/08/2010	Miles, C.J.
Powfoot	NY16	1975	Martin, J.D.S.

Salix x obtusifolia Willd.

A hybrid willow

(Salix aurita L. x S. lapponum)

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A rare hybrid growing where S. lapponum occurs on stream banks and rock ledges in the mountains. Nationally this hybrid is restricted to Scotland but it is almost certainly under-recorded. European boreal montane element; frequent in Fennoscandia. Rod Corner found the hybrid beside a waterfall at 600min 1984. He saw it again in 2006. The plant has been confirmed by D.J. Tennant. Tennant stated that there is material in the BM collected by E. S. Marshall in 1907 from the Tail Burn above the Grey Mares Tail. Rod Corners record is therefore the first post 1930 for v.c. 72 and currently the only record south of the Highlands in Britain.

Site	Gridref	Date	Recorder
Whitecoombe	NT 1631016035	2006	Corner, R.W.M.

Salix caprea subsp. sphacelata (Sm.) Mcreight

Goat Willow

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A native shrub or occasionally a small tree which grows beside lakes, in riverside *Salix* carr, on roadsides and hillsides and most frequently on the sides of rocky streams and in ravines. Nationally this subspecies is almost certainly under-recorded. European boreal montane element; widespread in the mountains of C. Europe.

This subspecies of the widespread goat willow has been recorded from a number of gullies in the Moffat Hills and once in the Lowthers. It retains pubescence on both leaf surfaces giving the whole tree a distinctive pale appearance.

Site	Gridref	Date	Recorder
Crawick Water, Sanquhar	NS783116	19/06/1994	Corner, R.W.M.
Tweedhope Burn.	NT01W	05/07/2004	Braithwaite, M.E. Gaskell, L.W.
Bodesbeck	NT1509	17/05/1997	Ashmole, P.
Deacon Snout	NT19221526	01/07/2000	Dalton, A.
Raking Gill	NT19891512	06/09/2015	Miles, C.J.

Salix cinerea x myrsinifolia

A Hybrid Willlow

National Status: Not Listed, Not Listed. Status in Dumfriesshire: Scarce.

Found occasionally within the more restricted distribution of S myrsinifolia. Most frequent by streams and rivers.

First listed in The Flora from Sanquhar by Dr. A. Davidson in 1886. It has only been recorded a few times since but is evidently scattered in eastern Dumfrieshire.

Site	Gridref	Date	Recorder
Garwald Water (NT20A)	NT21600157	22/09/2013	Miles, C.J.
Glenkiln	NY09A	18/08/2012	Miles, C.J.
The Hewke	NY18P	11/08/2013	Miles, C.J.
Waterhead of Dryfe	NY1894	04/07/1980	Silverside, A.J.
Todshawhill	NY29G	13/06/2010	Miles, C.J.
Boyken Burn and Craigs			
(NY38E)	NY307886	31/07/2011	Miles, C.J.

Salix herbacea L. Dwarf Willow

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A dwarf shrub of open, often bryophyte-rich communities in areas of late snow-lie, or in conditions of extreme exposure. It grows on erosion surfaces or stony ground on windswept ridges and cols, on screes, in corries and hollows, and locally on ledges and in montane grassheath. Nationally there has been no significant overall change in its distribution. European arctic montane element; also in N. America.

First recorded from White Coombe by W. Stevens in 1848. It grows on high level slopes exposed to wind and late snow where the vegetation is short and the willow hugs the surface. It has been reported from other summits by D.A.R. Ratcliffe (Lochcraig Head, Hartfell Craig) but no actual records have been located. It should still be present on these hills.

Site	Gridref	Date	Recorder
Firthhope Rig NT11M	NT11M	25/07/2009	Miles, C.J.
Carrifran, Moffat Hills SSSI	NT15851378	26/07/2003	Waddell, J.
White Coombe monad	NT16751543	22/06/2014	Roberts, J., Brown, P., Miles C. J.
NT1615			

Salix lapponum L.

Downy Willow

National Status: Scarce, Vulnerable. Status in Dumfriesshire: Rare.

A low shrub of moist or wet, moderately base-enriched sites on rocky mountain slopes and cliffs. This species tolerates a wider range of soil conditions than most montane *willows*, but is now largely confined to cliffs. National trends in the distribution of this species are unclear, but some small, ungrazed colonies appear to be producing no or very few seedlings, and may be in decline. Eurosiberian boreo arctic montane element.

First recorded in 1762 by the Rev. Dr. Walker from the NE slopes of White Coombe. Another record was for the Spoon Burn by E.F. Linton. It still survives on the White Coombe slopes though under constant grazing pressure from wild goats and sheep. It responded well when NTS had fenced off some of the slope. However the fence was demolished by snow in 2014/15. Some S. lapponum has been transplanted into Carrifran Wild wood in the upper Firthhope Burn valley.

Site	Gridref	Date	Recorder
White Coombe monad 1615	NT16781549	22/06/2014	Roberts, J., Brown, P., Miles C. J.

Salix myrsinifolia Salisb.

Dark Leaved Willow

National Status: Not Scarce, Least Concern.

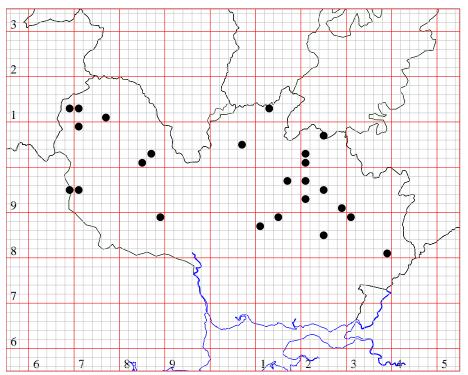
Status in Dumfriesshire: Not Scarce.

A shrub, or less often a small tree, which grows mainly on rocks or on gravelly river-banks and lake shores, less frequently in thickets on marshy ground or by wet woodland margins. In Scotland it sometimes grows in wet dune-slacks and as a dwarf, spreading shrub on wet rock ledges. Nationally there has been no significant recent change in the distribution. Eurosiberian boreal montane element.

This willow referenced in The Flora (as S. nigricans) under S. phylicifolia and as a hybrid with S. cinerea which highlights the confusion between these two taxa. The record from 1886 by Dr. A. Davidson in the Euchan may therefore refer to S. phylicifolia or both! It is more widespread than older records suggest occurring on riversides and hill slopes. It has a

variety of leaf sizes and hairiness but all darken markedly on drying and are prone to attack later in the season by leaf mining insects. All records shown are from 2007 onwards.

Salix myrsinifolia (Dark-leaved Willow)



Salix phylicifolia. L.

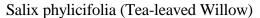
Tea Leaved Willow

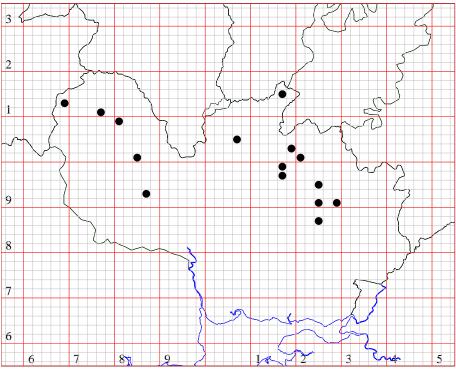
National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Not Scarce.

A much-branched shrub or small tree which grows by ponds, streams and rivers, and in damp rocky places, preferring base-rich soils and sometimes associated with Carboniferous limestone. Although now much better recorded, the distribution of this species has not changed significantly since the 1962 *Atlas*. It is very similar to *S. myrsinifolia*, and may be mis-identified for it and the hybrid between them.

The first record for Dumfriesshire may be the 1886 listing by Dr. A. Davidson from the Euchan. There is an older record from 1789 for *S. radicans* by Mr Maughan in Flora Scotica which may be *S. phylicifolia*. As currently defined this is distinctive from *S. mysinifolia* by having hairless leaves that do not darken. It grows in similar places but may cope with higher elevations than *S. mysinifolia*. Records shown are all from 2007.





Also recorded from NY47 (1981)

Salix x tetralpa Walker.

(Salix myrsinifolia x Salix phylicifolia)

National Status: Not Listed, Not Listed.

Status in Dumfriesshire: Scarce.

A Hybrid Willlow

An erect shrub or small tree of damp rocky ground, river-banks and lake shores. It is found where both parents are present, often in populations showing a complete range of intermediates between them, and also in the absence of *S. phylicifolia* in highland Scotland. Nationally there is no evidence to assess changes in its distribution. It is probably underrecorded. Frequent in N. Europe. In Fennoscandia, as in Britain, it is fertile and backcrosses to its parents are more frequent in some areas than *S. phylicifolia*, or occur in its absence.

Only recorded relatively recently in Dumfriesshire. As in other areas with both parents the hybrid is probably much more common than previously suspected. It seems more frequent than either parent on higher level slopes.

Site	Gridref	Date	Recorder
Glenairlie Bridge (NS80H)	NS83290593	25/08/2012	Miles, C.J.
Corehead tetrad B (NT11B)	NT1017213569	08/08/2010	Miles, C.J.
White Coombe monad 1615	NT1615	22/06/2014	Miles, C.J.
Garwald Water (NT20A)	NT21600157	22/09/2013	Miles, C.J.
Capel Burn (NY28M)	NY25268558	15/07/2012	Miles, C.J.
Todshawhill	NY29G	13/06/2010	Miles, C.J.

Boyken Burn and Craigs			
(NY38E)	NY305888	31/07/2011	Miles, C.J.

Salsola kali subsp. kali L.

Prickly Saltwort

National Status: Not Scarce, Vulnerable.

Status in Dumfriesshire: Rare.

A somewhat woody native annual of sand and shingle beaches, usually on the drift-line with *Atriplex laciniata*, *Cakile maritima* and *Honckenya peploides* as typical associates. Nationally *S. kali* subsp. *kali* has declined over the last 50 years. Many populations, especially in S. England, have been lost due to excessive recreational pressures, and in some areas there has been a drastic decline. Eurosiberian southern temperate element; widely naturalised outside its native range.

First recorded by J. Fingland between Powfoot and Newbie in 1891. This is a plant of sandy shorelines where it occasionally becomes established. Probably not present every year but seeding in from Cumbrian or Galloway populations.

Site	Gridref	Date	Recorder
Powfoot NY16M	NY1599765407	12/07/2009	Miles, C.J.

Samolus valerandi L.

Brookweed

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A native deciduous short-lived perennial found in small colonies by permanently wet and often seasonally flooded springs, flushed sea-cliffs, puddles, ditches, lagoons and lake shores. Populations are often impermanent, colonising the small and transient specialised habitats which change as spring lines and water levels shift. Individuals are usually monocarpic, but may take several years to flower. Nationally its distribution is fairly stable. Circumpolar southern temperate element.

First listed by Rev. Dr. Burgess in 1789 from Ruthwell. In The Flora it was recorded in other locations where it might still be present. This is a plant of wet muddy or peaty ground along the coast in the saline-freshwater transition zone.

Site	Gridref	Date	Recorder
Castle Wood	NY06H	16/07/2008	Miles, C.J, Wilson, B., Kennedy, D.
Riddingdyke	NY16H	10/07/2009	Miles, C.J.
Lochmaben Stone	NY36C	08/09/2007	Miles, C.J.

Also recorded in NY26

Saussurea alpina (L.) DC.

Alpine Saw Wort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

Perennial herb of damp, base-rich cliffs, screes and other open ground, occasionally found in flushed areas and sometimes washed down mountain streams to become established on rocky stream banks and riverside shingle. Nationally there is some evidence of local decline although the overall distributional picture appears stable. Eurasian arctic montane element.

Recorded by Rev. Dr. Walker from 1762 from the Midlaw Linn where it still occurs. In The Flora also recorded from White Coombe and Black's Hope and also still present in these locations. Grows on rock ledges and crags out of reach of grazing animals. The 1952 record is almost certainly by D.A.R. Ratcliffe and needs refinding.

Site	Gridref	Date	Recorder
Hartfell Crags	NT119132	18/08/1952	
Falcon Craig (NT11G)	NT1237913416	03/08/2010	Miles, C.J.
			Roberts, J., Brown, P., Miles
White Coombe monad (NT1615)	NT16781549	22/06/2014	C.
Mid Craig Monad (NT1616)	NT16121622	08 Aug 2015	Miles, C.J; Miles, A.J.

Saxifraga hypnoides.L.

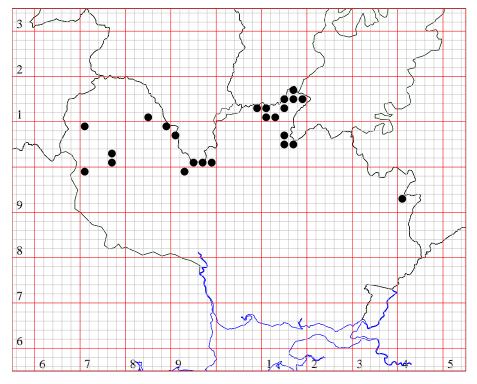
Mossy Saxifrage

National Status: Scarce, Least Concern. Status in Dumfriesshire: Not scarce.

A perennial, stoloniferous herb growing on moist rocks, screes, cliffs and by mountain streams, rarely on sand dunes, often in partial shade. Substrates are frequently base-rich, although it can grow on acidic rocks. It is also cultivated and sometimes escapes. Generally from 200-760 m.

First recorded by Rev. Dr. Burgess in 1789 at Penbreck, Queensberry where it still occurs. Wet rocks and scree in gulley's with water movement and sheltered mossy slopes with water seepage. The map shows records at tetrad or better scale recorded since 2004.





Also recorded in NT00, NT20, NY38 (1955), NY39 (1969), NY48

$Saxifraga\ nivalis\ {\it L}.$

Alpine Saxifrage

National Status: Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A native perennial, rhizomatous herb growing on damp, shady, base-rich rocks and cliffs. It is usually found in crevices and on ledges where competing vegetation does not overtop it. Nationally the distribution of *S. nivalis* is stable. Circumpolar arctic montane element.

First recorded by J.T. Johnstone in 1889 in Blacks Hope. Found again by D.A.R. Ratcliffe in 1956 when there were 29 plants and then 1973 when there were 7. Not seen since. Precise location withheld.

Site	Gridref	Date	Recorder
Black Hope	NT11	07/1973	Ratcliffe, D.A.

Saxifraga oppositifolia L.

Purple Saxifrage

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A prostrate to more or less densely caespitose perennial herb, growing on open, moist but well-drained, base-rich rocks and stony ground, mainly on cliff-faces, ledges, stony flushes and scree slopes, the southern sites having a northerly aspect. The distribution of the species nationally is stable. Circumpolar arctic montane element.

First listed by Rev. W. Singer in 1848 from the Grey Mares tail. Found on near inaccessible rock face beside the lower waterfall. It has never been found anywhere else in this part of the Southern Uplands despite suitable habitat. Richard Clarkson reported 53 patches present in 2014. It also occurs very rarely in the Galloway Hills.

Site	Gridref	Date	Recorder
Tail Burn NT11X	NT183149	24/3/2014	Clarkson, R.

Saxifraga Stellaris L.

Starry Saxifrage

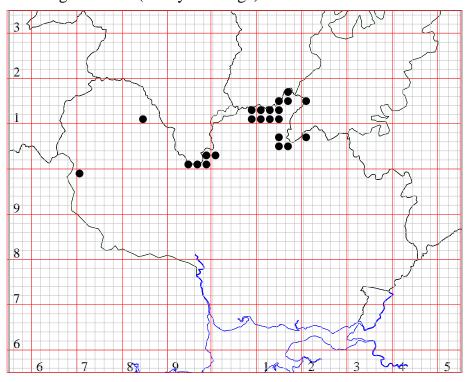
National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Not scarce.

A perennial, stoloniferous herb found in open (rarely shaded), wet flushes, growing by mountain streams or on wet rock ledges and cliff-faces, usually in base-poor soil. It is commonly found from about 200-1000 m. There has been no appreciable change in the distribution of *S. stellaris* since the 1962 *Atlas*.

First listed by Rev. Dr. Burgess in 1789 from Queensberry. It is common in the Moffat, Lowther and Ettrick hills but very sparce or absent elsewhere. In flushes and water channels. The map shows records at tetrad or better scale recorded since 2006.

Saxifraga stellaris (Starry saxifrage)



Also recorded in NS60, NX99

Saxifraga tridactylites L.

Rue Leaved Saxifrage

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A winter-annual that occurs in dry open habitats such as sandy grassland, limestone pavement and rock ledges, cliffs and screes, and on man-made structures like mortared walls, pavements and railway tracks. It is most commonly found on base-rich substrates, often on skeletal soils or virtually bare rock. Nationally there has been a widespread decline in S. and E. England but eleswhere populations appear to be stable. European southern temperate element.

Recorded by David Hawker for the first time in 2010 in the old limestone quarry at Kinmount. This has since become active again and the Saxifrage may not be seen until excavations cease.

Site	Gridref	Date	Recorder
Kinmount NY16P (NY16P)	NY1512669274	25/06/2011	Miles, C.J.

Schoenoplectus lacustris (L.) Palla.

Common Club Rush

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A tall rhizomatous perennial herb of standing or flowing fresh water, in conditions ranging from eutrophic and base-rich to oligotrophic and base-poor. Substrates include silt, clay, peat or gravel. It occurs in ponds, lakes, canals, dykes and slow moving rivers, usually in water 0.3-1.5 m deep, but can also be found in deeper water. Nationally the population appears to be stable. Eurosiberian wide- emperate element.

First listed from Dumfries by P. Gray in 1842. It was also reported in The Flora from Lochmaben where it is still present. It is found on the edge of Lochs and slow flowing rivers. It can be confused with Grey Club Rush which can also grow in freshwater conditions.

Site	Gridref	Date	Recorder
Loch Urr	NX760845	10/09/1996	Day, J. Willby, N.J.
Mill and Blind Lochs	NY08R	13/07/2014	Miles, C.J; Miles, A.J.
Castle Loch	NY086814	18/09/1996	Lassiere, O.L. Dines, C.
N end Castle Loch	NY0882	Aug-73	

Also recorded in NY07,

Schoenoplectus tabernaemontani (C.C.Gmel) Palla.

Grey Club Rush

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A rhizomatous native perennial herb, most frequent in coastal sites where it grows in brackish water in rivers, dykes, tidal channels, lagoons and dune-slacks; also in depressions in saltmarsh and in wet pasture. Inland, it occurs by lakes, ponds, slow-flowing rivers, streams and canals, and in flooded quarries and pits. Nationally the plant is increasing. This might, in part, be due to better recording now that its ability to grow inland is appreciated. It has also colonised newly created gravel-pits, and may have been planted at some of its inland sites. Eurasian southern temperate element.

Not reported from Dumfriesshire in The Flora so the earliest record may be that of C. Newbold in 1977 from the Upper Loch Lochmaben. Otherwise recorded from more brackish conditions along the coast.

Site	Gridref	Date	Recorder
East Park WWT Centre	NY0565	11/06/2015	Miles, C.J.
Upper Loch	NY0783	13/08/1977	Newbold, C.
Lochmaben Stone	NY36C	08/09/2007	Miles, C.J.

Scleranthus annuus L.

Annual Knawel

National Status: Not Scarce, Endangered.

Status in Dumfriesshire: Scarce.

An annual or biennial herb found in soil pockets on summer-droughted rocks, and on disturbed sandy soil on heaths, commons, waste places, arable fields and, rarely, river or maritime shingle. It has declined significantly throughout its range. European temperate element; widely naturalised outside its native range.

It was first listed in 1796 by Rev. Dr. Burgess at Broomholm, Langholm. It was widespread at the time of The Flora but appears to have declined significantly and has not been seen since the early 1980s. Its habitat, dry sandy waste ground, appears to have become scarce with more intensive cultivation.

Site	Gridref	Date	Recorder
Jericho Loch	NX9980	22/08/1982	Martin, M.E.R.
Lochar Moss	NY0177	21/07/1977	Martin, M.E.R.
Lochmaben	NY076834	1973	Martin, M.E.R.
Shieldhill Bridge, River Ae	NY0385	04/08/1981	Stewart, O.M.

Also recorded in NX97(1941), NY17, NY18, NY19, NY38 (1956).

Scrophularia auriculata L.

Water Figwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A native perennial herb of wet places on the margins of lakes, rivers, streams and canals, and in ditches, marshes and wet woodlands. Nationally the species' distribution remains stable. Suboceanic southern temperate element.

First listed in The Flora by Rev. Dr. Singer in 1843 (as *S. aquatica*) from Annan. This is a southern species that is sparse in Scotland. It may be confused with the widespread *S. nodosa* and perhaps the even less frequent *S. umbrosa*. The few scattered records are generally near larger rivers especially the lower Annan.

Site	Gridref	Date	Recorder
Samye Ling	NT2400	1999	Walls, R.M.
River Nith shingle	NX98	04/09/1999	Miles, C.J.
Cummertrees	NY16	04/08/1999	Miles, C.J.
Blacketlees	NY1968	1957	Perring, F.H.; Hall, J.F.; Hall, P.C.
Woodcock Air NY17R	NY16817254	20/05/2009	Miles, C.J.

Also recorded in NY38 (1955)

Scrophularia umbrosa Dumort

Green Figwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A rhizomatous perennial herb which grows on fertile soils by streams and rivers, and in damp woodland, in both open and shaded places. Nationally increasing. Eurosiberian temperate element.

Only two records for this species. The latest by J.D.S. Martin was confirmed by A. Silverside. This is well established in the eastern Borders and Cumbria on the Eden and should be looked for in ditches.

Site	Gridref	Date	Recorder
Johnstonebridge,nr fishfarm	NY1091	28/07/1980	Martin, J.D.S.

Also recorded in **NY38** (1955)

Sedum rosea (L.) Scop.

Roseroot

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A rhizomatous perennial herb which grows on sea-cliffs and in mountains in rock crevices and on moist rock ledges. In montane habitats it usually occupies sites which are at least slightly base-enriched. Nationally the species' distribution is stable. Circumpolar arctic montane element.

First listed for Dumfriesshire by Rev. Dr. Singer in 1843. On dry or moist basic rocks and ledges in the high hills. Mostly confined to the Moffat Hills but one small population continues to survive in the Lowthers (known at the time of The Flora). The record from NY38 is possible though lacks a specific location.

Site	Gridref	Date	Recorder
Earncraig (NS90Q)	NS97720122	28/06/2014	Miles, C.J.
Capplegill	NT1409	19/07/1974	Stewart, O.M.
Moffat Hills SSSI, Blackhope,			
Hartfell Craig	NT118133	20/06/2008	Waddell, J.
Upper Coomb Craig, Moffat			
Hills SSSI	NT12261176	24/05/2007	Waddell, J.
Black Hope (NT11G)	NT1258112529	25/07/2010	Miles, C.J.
Redgill Craig monad (NT1312)	NT13451285	16/08/2015	Miles, C.J.
Whirly Gill (NT1313)	NT13141316	07/09/2014	Miles, C.J; Miles, A.J.
Saddle Yoke NT11L	NT11L	27/07/2008	Miles, C.J.
Firthhope Rig NT11M	NT11M	25/07/2009	Miles, C.J.
Carrifran (NT11L)	NT1514713121	26/06/2011	Miles, C.J.
Moffat Hills SSSI, Firthhope			
Burn	NT15221452	10/06/2004	Rae, D.A.
White Coombe monad			
(NT1615)	NT16801551	22/06/2014	Roberts, J., Brown, P., Miles C.J.
Mid Craig Monad (NT1616)	NT16321654	08/08/2015	Miles, C.J; Miles, A.J.
Dobs Linn	NT11X	03/07/2011	Miles, C.J.

Also recorded in NT00 and NY38 (1955)

Sedum villosum L. Hairy Stonecrop

National Status: Scarce, Near Threatened. Status in Dumfriesshire: Not Scarce, declining.

A small biennial or perennial herb which grows in at least slightly base-enriched, wet, stony ground and on streamsides in hilly areas, and in montane, often bryophyte-rich, flushes. Nationally there has been a decline in more lowland areas and it may be under-recorded in many upland parts of Scotland. European boreo arctic montane element; also in N. America.

First record appears to be by W. Keddie from the Auchencat Burn in 1854. This is still widespread though often in small quantity and easy to overlook when not in flower. It likes the gravelly edges of small hill streams and also calcareous flushes and must have disappeared from many hills with conifer plantations. It is found in the Moffat, Ettrick, Lowther and Langholm Hills and Dumfriesshire is one of the strongholds for this North Pennine and Southern Upland specialist.

Site	Gridref	Date	Recorder
Corserigg Forest, Mynwhirr Hill	NS69060910	12/07/2011	Waddell, J.
Glenglass Burn-Euchan Water	NS709063	1886	Davidson, A.
Corserig Hill NS70E	NS70E	30/07/2011	Miles, C.J.
Carlinstane Burn	NS7802	14/08/1975	Stewart, N.F.
Knockenhair Fm+Crawick Water.	NS71W	15/09/2003	White, A., Miles, C.J.
Mennock Pass	NS80E	1933	Taylor, G.
Mennock Pass	NS80J	1933	Taylor, G.
Kettleton Reservoir (NS80V)	NS89510096	03/06/2011	Miles, C.J.

Dalveen Pass	NS80Y	8/1896	Neilson, G.B.
Nether Cog-Crawick Water	NS807151	-1886	Scott - Elliot, G.F.
Cogshead-Sanquhar Moor	NS829131	-1886	Scott - Elliot, G.F.
White Dod NS81K	NS81K	20/06/2009	Miles, C.J.
Whiteside (NS81V)	NS88121135	10/07/2011	Miles, C.J.
Durisdeer, nr	NS903047	05/07/1978	Sladen, Capt.
Cheese Wells (NT01A)	NT11701044	02/09/2012	Miles, C.J.
Lochan Burn	NT01W	05/07/2004	Braithwaite, M.E. Gaskell, L.W.
Braefield,Warnphray Water	NT140002	1973	Martin, M.E.R.
Selcoth Burn (NT10N)	NT15500626	28/08/2011	Miles, C.J.
Corehead tetrad B (NT11B)	NT10414131 36	08/08/2010	Miles, C.J.
Dobs Linn	NT11X	03/07/2011	Miles, C.J.
Garwald Water	NT219011	1955	Watt, G.
Foulbog	NT20N	20/08/2011	Miles, C.J.
Thornhill	NX89	1896	Johnstone, J.T.
Auchenleck hill NX99J	NX99J	15/09/2006	Miles, C.J.
W. side of Track near Burleywhag	NX972988	04/07/2000	Corner, R.W.M.
Queensberry	NX99Z	1896	Scott - Elliot, G.F.
Ministers Moss/Moss Knowe nr	NY008904	26/08/1959	Milne-Redhead, H.
Burnswark	NY17	1896	Scott - Elliot, G.F.
Lockerbie,'Hutton of Dryfe'	NY18	1896	Scott - Elliot, G.F.
Finniegill (NY19U)	NY17349862	15/08/2013	Miles, C.J.
Martingill Bridge,E of Bailliehill	NY264909	10/06/1955	Watt, G.
Roan Fell, Tarras Water	NY4493	05/05/1983	Ratcliffe, D.A.

Also recorded in NX79

Serratula tinctoria L.

Saw Wort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A perennial herb of calcareous grassland, hay and fen-meadows, wet heaths and heathy mires, open scrub and woodland, rocky lake shores and cliff-tops; also in artificial habitats including roadside verges and railway banks. Nationally the species has declined in the UK due to drainage, the improvement of pastures and the loss of grasslands in woods and on woodmargins. European temperate element.

List by D. Bell in 1837 from "Eskdale". There is just the one record since then from Liddesdale. This species is rare in Scotland and Dumfriesshire is on the edge of a Cumbrian population where the species is not scarce. Needs some further survey effort to see if it survives but grassland improvement might have caused its loss.

Site	Gridref	Date	Recorder
Penton Bridge, Liddel Water	NY4377	1972	Martin, M.E.R.

Sherardia arvensis L.

Field Madder

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

An annual of open, droughted grasslands, sheltered cliffs, sand dunes, arable fields, waste ground, waysides and verges. Formerly frequent, this species is now much decreased due to agricultural intensification. Whilst remaining common in some coastal localities and locally inland, it is now no more than a rare casual over parts of its range. European southern temperate element; it is widely naturalised outside its native range.

Listed by P. Gray in 1842 from Dumfries. This southern species is found in disturbed ground and verges.

Site	Gridref	Date	Recorder
Coatsgate Quarry (NT00S)	NT06180527	07/06/2014	Miles, C.J.
Lambholm	NY035862	04/10/2009	Miles, C.J.
Lochbank, disused rly+Upper			
Loch	NY075834	25/05/1988	Martin, M.E.R.
Kirkton Farm	NY18F	1996	Davidson, A., D.
Eastriggs Ordnance depot	NY260650	24/07/2002	Miles, C.J., Galley, J.

Also recorded in NT10

Solanum nigrum L.

Black Nightshade

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Scarce may be spreading

An annual weed of cultivated and waste land, especially where the soil is nutrient-rich. *S. nigrum* may be native in S.E. England, but it is certainly introduced and usually casual in N. England, Wales, Scotland and Ireland. Eurasian southern temperate element; widely naturalised outside its native range.

Not mentioned for Dumfriesshire in The Flora, (but on the coast of Wigtownshire). The first record is as recent as 1999 when it was found in a crop of maize by C. Miles. It appears to have spread to a number of areas often in maize but is also found in hedgerows and on shingle at the coast.

Site	Gridref	Date	Recorder
Kirkbog (NX89R)	NX87259382	30/08/2014	Miles, C.J.
Crichton Royal Farm NX97W	NX97W	13/10/2009	Miles, C.J.
Zuider Zee	NX952811	04/09/1999	Miles, C.J.
Kirkton (NX98Q)	NX96958190	14/09/2013	Miles, C.J.
Lambholm	NY035862	04/10/2009	Miles, C.J.
Hitchill	NY145673	04/10/2009	Miles, C.J.
Lochmaben Stone NY36C	NY36C	08/09/2007	Miles, C.J.

Sparganium angustifolium Michx

Floating Bur Reed

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A perennial herb of clear, oligotrophic water, only rarely extending into mesotrophic conditions. It is most frequent in upland lakes but also grows in pools, rivers, streams, canals and ditches. Nationally the distribution of this species is difficult to ascertain due to previous taxonomic uncertainty. European boreal montane element; also in E. Asia and N. America.

First record is from G.N. Lloyd (as *S. affine*) in 1837 on the Lochar Moss. This is infrequent in nutrient poor water and has been lost from some old sites. It is a very western species and Dumfriesshire is on the edge of its distribution.

Site	Gridref	Date	Recorder
Loch Urr	NX760845	10/09/1996	Day, J. Willby, N.J.
Drumlanrig Castle	NX89P	12/05/2012	Miles, C.J.
Jerico loch	NX98	1985	Martin, M.E.R.
Loch Ettrick	NX99L	18/08/2012	Miles, C.J.

Sparganium natans L.

Least Bur Reed

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

This species grows in shallow, sheltered waters at the edges of lakes, or in ponds, slowly flowing streams and drainage ditches. It is found in mesotrophic, highly calcareous to acidic waters. Nationally many populations were lost in the lowlands, in the first half of the 20th century and this decline has continued. These losses are attributable to the drainage of wetlands in historic times, and perhaps to eutrophication of surviving sites. The distribution elsewhere appears to be more stable. Circumpolar boreo temperate element.

First listed in Dumfriesshire by Rev. Dr. Burgess in 1777 from Holywood and Lochmaben. More frequent than *S. angustifolia* as more tolerant of nutrient enriched water though will grow in oligotrophic conditions. It does not produce the same length of floating lvs. as *S. angustifolia*.

Site	Gridref	Date	Recorder
Loch Urr	NX755849	03/08/1988	Stewart, O.M.
Loweberry Loch	NX882815	02/09/1996	Willby, N.J. Lassiere, O.L.
Capenoch Loch	NX837927	1999	Miles, C.J.
Cowhill Tower (NX98L)	NX95458280	08/09/2012	Miles, C.J.
Jericho Loch, S end	NX995804	04/08/1985	Martin, M.E.R.
Lochar Moss	NY07	8/1839	Balfour, J.H.
Meikleholm Loch	NY0389	06/06/1988	Martin, M.E.R.
Old Broomhill	NY098835	09/07/1987	Martin, M.E.R.

Also recorded from NT00, NY27.

Spartina anglica C.E. Hubb.

Common Cord Grass

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A rhizomatous perennial herb of tidal mud-flats and saltmarshes, much planted as a mud-binder and forming extensive stands in many estuaries. It originated in Southampton Water in about 1890 as an amphidiploid derivative of *S. x townsendii*. Nationally it has become widespread both through deliberate planting and natural colonisation. It is not possible to separate native and planted populations. Endemic as a native to Britain, but widely planted in W. Europe.

Not recorded at the time of the 1896 Flora (it arose in the wild about 1890 on the South coast of England) so the first record appears to be that from J.D.S. Martin in 1978 at Powfoot. Forming patches on bare mud at edge or within merse (saltmarsh). So far not forming extensive stands as in other estuaries where there is perhaps finer sediment.

Site	Gridref	Date	Recorder
Castle Wood NY06H	NY06H	16/07/2008	Miles, C.J, Wilson, B., Kennedy, D.
Riddingdyke NY16H	NY13106514	10/07/2009	Miles, C.J.
Powfoot NY16M	NY16M	12/07/2009	Miles, C.J.
Annan Waterfoot NY16X	NY16X	28/08/2008	Miles, C.J.
Baurch	NY26X	20/07/2014	Miles, C.J.

Stachys arvensis (L.) L.

Field Woundwort

National Status: Not Scarce, Near Threatened.

Status in Dumfriesshire: Rare.

An archaeophyte summer- or winter-annual of arable fields, allotments and gardens, waste ground and road verges, usually on non-calcareous soils. It occurs on limestone outcrops in W. Ireland. *S. arvensis* was formerly a frequent weed of arable land which is now declining nationally. Suboceanic southern temperate distribution; it is widely naturalised outside this range.

Not in The Flora for Dumfriesshire so probably first recorded by H. Milne-Redhead though he gives no specific location or date other than pre 1969. It has always been rare and has probably declined because of a reduction in arable farming in hillier sites and improved control of weeds with sprays.

Site	Gridref	Date	Recorder
Jericho Loch	NX994808	22/08/1982	Martin, M.E.R.
Birset	NY0774	08/09/2012	Miles, C.J.
Lochmaben	NY080824	30/09/1975	Martin, J.D.S.

Also recorded in NY17 and NY18

Subularia aquatica L.

Awlwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

An annual aquatic plant, sometimes overwintering as a rosette, growing on silt, gravel or stony substrates in acidic, oligotrophic lakes. It is normally a plant of water shallower than one metre, and is only rarely found in other water bodies, such as outfall streams. Nationally eutrophication seems to have caused declines along the eastern fringe of its range, and also in the Lake District and N. Ireland. Circumpolar boreal montane element, with a disjunct distribution.

First reported from Loch Skeen in Dumfriesshire in 1830. It still grows submerged in the shallows of the loch with more plentiful Littorella. It can be separated from the latter by the more pointed leaves.

Site	Gridref	Date	Recorder
Loch Skeen (NT11T)	NT17261595	22/06/2014	Roberts, J., Brown, P., Miles C.J.
Loch Skeen	NT171165	16/09/1996	Willby, N.J. Lassiere, O.L.

Teesdalia nudicaulis (L.) R. Br.

Shepherd's Cress

National Status: Not Scarce, Near Threatened.

Status in Dumfriesshire: Scarce.

A winter-annual of acidic, well-drained sandy soils on heathlands, sand dunes, shingle and gravels, by railways and on coal and cinder tips. It prefers bare or disturbed ground. Nationally it is declining probably due to scrub invasion and afforestation. European temperate element.

First recorded by J Wilson at Locharbriggs in 1882. This has never been common and is infrequently seen probably because the conditions it requires are limited.

Site	Gridref	Date	Recorder
Beattock, Evan Water	NT00	1896	Johnstone, J.T.
Jericho Loch, Locharbriggs	NX996806	05/05/1985	Martin, M.E.R.
Lochmaben, cemetery	NY08Q	14/11/1988	Martin, M.E.R.
Powfoot, golf course	NY146655	01/06/1979	Cameron, J.
Powfoot NY16M	NY158654	12/07/2009	Miles, C.J.

Also recorded in NT01

Thalictrum alpinum L.

Alpine Meadow Rue

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A small, rhizomatous perennial of mountain habitats. It is found on damp rock ledges, at the open edges of stony streams and flushes and in thin grassland. It is a good indicator of substrates which are at least slightly base-rich. Nationally its population is stable. Circumpolar arctic montane element, with a disjunct distribution.

First listed for Dumfriesshire from Hartfell by W. Sheffield in 1777. It is now better mapped and known from a number of hills across the Southern Uplands in flushed pasture and on rocky ledges and exposures. It is only plentiful in the VC in the Moffat Hills.

Site	Gridref	Date	Recorder
S. side of Earncraig Hill from	NS972010	04/07/2000	Corner, R.W.M.
450-580m			
E. side of Ganna Shank at	NX963008	04/07/2000	Corner, R.W.M.
500m			
Corehead tetrad W (NT01W)	NT0925313706	08/08/2010	Miles, C.J.
Corehead tetrad B (NT11B)	NT1017213569	08/08/2010	Miles, C.J.
Nether Coombe Craig NT11F	NT11F	10/06/2007	Miles, C.J.
Falcon Craig (NT11G)	NT1258112529	03/08/2010	Miles, C.J.
Black Hope (NT11G)	NT1279813156	25/07/2010	Miles, C.J.
Whirly Gill	NT1313	07/09/2014	Miles, C.J.; Miles, A.J.
Saddle Yoke NT11L	NT11L	27/07/2008	Miles, C.J.
Carrifran (NT11M)	NT1478514574	21/08/2010	Miles, C.J.
Moffat Hills SSSI, Firthhope			
Burn	NT15221452	10/06/2004	Rae, D.A.
			Roberts, J., Brown, P., Miles
White Coombe monad 1615	NT1615	22/06/2014	C.J.
Moffat Hills SSSI, Midlaw Linn	NT1616	08/08/2015	Miles, C.J.
Grey Mare's Tail	NT184148	13/07/2006	Whild, S.J.; Lockton, A.J.
Summer Cleuch Knowe			
(NT20D)	NT21270738	04/08/2014	Miles, C.J.
Mitchell Hill	NT20E	13/07/2012	Miles, C.J.
Bloodhope Head (NT20J)	NT22030870	21/07/2012	Miles, C.J.

Thalictrum minus L.

Lesser Meadow Rue

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

A morphologically variable, native perennial herb found in calcareous or other base-rich habitats where competition is low, including fixed dunes, scrubby banks, rocky lake and river edges, limestone and serpentine cliffs, limestone grassland and pavement and montane rock ledges. It also occurs in other habitats, including churchyards, hedge banks and roadsides, as a garden escape. Nationally its native distribution is stable. Eurasian boreo temperate element.

This was first recorded in Dumfriesshire from the Grey Mares tail in 1856 by Dr. J.H. Balfour. This has also been recorded from Nithsdale but has not been recorded there for over a 100 years. It appears to be restricted to a few rocky ledges in the Moffat Hills.

Site	Gridref	Date	Recorder
Nether Coomb Craig, Moffat			
Hills SSSI	NT12591140	24/05/2007	Waddell, J.
Falcon Craig (NT11G)	NT1258112529	03/08/2010	Miles, C.J.
Dobs Linn	NT11X	03/07/2011	Miles, C.J.

Trientalis europaea L.

Chickweed Wintergreen

National Status: Not Scarce, Least concern.

Status in Dumfriesshire: Scarce.

Perennial herb of moist, acidic and humus-rich, but often fertile, soils and on moorland; less commonly on heaths. It is highly localised, colonies often being separated by much apparently suitable ground. Nationally the species is declining in N. England but is stable elsewhere. Circumpolar boreal montane element.

Recorded in The Flora by A. Hutton from Eskdale but with some uncertainty and without a date. Since then recorded only a few times. Populations are small and on moorland or peatland. The recent small population found in Nithsdale on the edge of a peat hag is well outside the previous known range and may suggest there are other populations still to be found.

Site	Gridref	Date	Recorder
Kettleton Reservoir (NS80V)	NS89160089	03/06/2011	Miles, C.J.
Garwald	NT20	1981	Ellis, D.E.
Bell's Flow SSSI	NY318764	07/07/1995	Miles, C.J.
Whita Hill	NY3784	03/07/1975	Martin, M.E.R.
Cronksbank, nr	NY391828	02/06/1994	Tinker, Dr M.D.
Tinnisburn Forest	NY428822	1988	Ellis, D.

Trisetum flavescens (L.) P. Beauv.

Yellow Oat Grass

National Status: Not Scarce. Least Concern.

Status in Dumfriesshire: Scarce.

Perennial of well-drained neutral and calcareous grassland, found in lowland pasture and hay meadows, on downland, banks and roadsides, and occasionally rocks. It is most abundant in old, ungrazed hay meadows. Nationally its distribution is stable. European temperate element; widely naturalised outside its native range.

Recorded first by Dr. Davidson in 1886 from Crawick Bridge. It was seen not far from here in 1987. Despite this being common in Cumbria this remains a scarce plant across the Border

in western Scotland (though not in the eastern Borders). It is usually seen in small quantity on the edge of older pasture or on grass verges.

Site	Gridref	Date	Recorder
Knockenhair Fm	NS784128	06/08/1987	Martin, M.E.R.
Georgetown (NX97X)	NX98877465	05/07/2013	Miles, C.J.; McKinnel, J.
Robertland	NX9982	01/07/1990	Martin, M.E.R.
Lochar Moss	NY011777	12/06/1984	Martin, M.E.R.
Powfoot, W of	NY1465	15/06/1978	Martin, J.D.S.
			Stewart, O.M., Stirling, A. McG,
Kinmount	NY1468	10/08/1996	Miles,C.
Powfoot, E of	NY1565	1972	Martin, J.D.S.
Tundergarth House	NY170810	19/06/1984	Martin, M.E.R.
Old Graitney	NY316663	12/07/1981	Martin, M.E.R.
Penton Linns	NY4377	17/08/1997	Miles, C.J.

Also recorded in NY29, NY48 (1958)

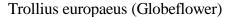
Trollius europaeus L.

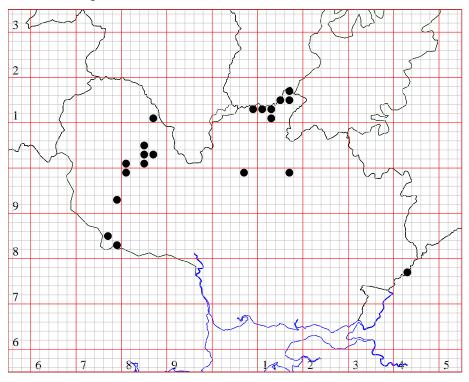
Globeflower

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Scarce may be spreading

A perennial herb of cool, damp habitats, including hay meadows, stream and river banks, lake margins, open woodland and rock ledges. It prefers basic soils, and is often associated with limestone. It is sensitive to grazing, but can persist as small, non-flowering plants in the uplands. Nationally there has been a small decline through drainage and agricultural improvement to hill pastures.

First listed by Rev. Dr. Burgess in 1789. Found in hill grasslands and rock ledges or on riverside rocks on the Nith and Liddel Water where it can be luxuriant. It has become more apparent at high levels in the Moffat Hills where grazing has been reduced. Some populations are small and isolated. The map shows records recorded to tetrad or better scale since 1978.





Also recorded in NS70, NS71 (1968), NT00, NT10 (1962), NY29, NY38 (1955)

$Typha\ angustifolia\ {\it L}.$

Lesser Bulrush

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

This tall, rhizomatous perennial grows as an emergent in mesotrophic or eutrophic water in lakes, ponds, ditches and flooded mineral workings. It tends to grow in deeper water than T. latifolia, and tolerates mesotrophic as well as eutrophic conditions. It also grows as floating rafts at some sites. Nationally its distribution is stable. Eurosiberian temperate element.

First listed by Rev. Dr. Singer in 1843 from Lochmaben, the only location given in The Flora. Much less common than T. latifolia and while infrequently recorded likely to be persistent at sites unless subject to habitat change. May be introduced by planting, though less often than *T. latifolia*.

Site	Gridref	Date	Recorder
Capenoch Loch	NX837927	23/07/1999	Miles, C.J.
Racks Moss	NY07	08/07/1999	Miles, C.J.
Barony College, Parkgate	NY0287	04/12/1982	Muir, J.
Mill Loch, Lochmaben	NY076831	16/07/1984	Martin, M.E.R.
Castle Loch	NY086814	18/09/1996	Lassiere, O.L. Dines, C.
Lockerbie Curling Pond	NY125804	15/09/1987	Martin, M.E.R.

Also recorded in NY37

Ulex galii Planchon.

Western Gorse

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A shrub of heaths on infertile acidic soils, including leached soils overlying chalk and limestone; also found on sea-cliffs, in under-grazed or abandoned pastures, and on scrubby banks and waste ground. Nationally its distribution is probably stable. Oceanic temperate element.

First record is By Rev. T. Bell at Dornock in 1882. It is very infrequent in heathy conditions on medium height hill slopes. Recent records have been where ground disturbance has allowed establishment. There are good populations in Cumbria and Kircudbrightshire so it ought to be more frequent.

Site	Gridref	Date	Recorder
Clauchrie Plantation NX98 J	NX98J	03/09/2006	Miles, C.J.
Glentemont Height	NY285855	27/08/1995	Corner, R.W.M.
Hallidayhill Moor	NY0873	08/09/2012	Miles, C.J.

Also recorded in NY16, NT00

Ulmus procera Salisb.

English Elm

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A large wide-topped tree, often considered a definitive component of the English countryside, found in hedgerows and field-borders, rarely in woodland but sometimes forming small copses. In most areas few mature trees remain, being very susceptible to the current outbreak of Dutch Elm disease which began in about 1965. New sapling growth still succumbs, but the species remains a major hedgerow constituent, particularly in its core area. The natural distribution is much confused by planting, but probably does not extend much beyond England and Wales. European temperate element.

Not recorded in The Flora where Ulmus minor was listed (as U.campestris). However no sites were given and that is not now thought to occur so early records may refer to U. procera. Elms other than U.glabra are difficult taxonomically. It is present on the Solway plain in Cumbria but becomes very scarce across the border. It will now be reduced to suckers in hedgerows and scrub as a result of elm disease.

Site	Gridref	Date	Recorder
Bessie's Knowe-Watch Hill	NT01	31/07/1988	Noltie, H.J. Miller, A.G.
Hartfell Spa+Auchencat Burn	NT01	04/08/1957	Collett, T.G.
Rockhall	NY056754	23/07/1982	Martin, J.D.S.
Kinmount	NY1469	1976	Martin, J.D.S.
Mount Annan	NY1868	1975	Henderson, P.

Also recorded in NY17, NY18

Utricularia intermedia sens. lat Hayne

Intermediate Bladderwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

Perennial, insectivorous herbs, most frequent in shallow, oligotrophic water in acidic and peaty sites, though also occurring in calcareous sites. They rarely flower. A poorly known aggregate of three species which all appear to be in decline nationally due to habitat loss and eutrophication. Circumpolar boreal montane element.

Recorded from Loch Urr in 1887 by J Fingland. May still be present though not recorded since 1959 at the site. Likely to have declined due to changes to habitat, particularly improved drainage.

Site	Gridref	Date	Recorder
Dalmaclellan Hill	NX7987	01/09/1973	Milne-Redhead, H.
LUrr+Moniaive,nr	NX78	1959	Stirling, A.McG.

Also recorded NX89

Utricularia minor L.

Lesser Bladderwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

Perennial herb of nutrient-poor, acidic, or sometimes base-rich, shallow water in bog pools and abandoned peat cuttings, at the edges of lakes amongst emergent vegetation, in ditches and small ponds, and in fens. Nationally it is declining, particularly in S. and E. England, and perhaps also in S.E. Ireland, due to habitat destruction and eutrophication. It may still be under-recorded in the northern and western parts of its range. Circumpolar boreo temperate element.

First recorded 1836 by N.A. Dalzell at Solway Moss. As can be seen rarely recorded since and not seen since 1959. Likely to have declined due to changes to habitat, particularly improved drainage.

Site	Gridref	Date	Recorder
LUrr+Moniaive,nr	NX78	1959	Stirling, A.McG.
Lochar Moss, near Racks	NY07	1896	Grierson, F.W.
Hightown Hill	NY038835	21/08/1959	Milne-Redhead, H.
Applegarth Town	NY18	1896	Singer, Rev. Dr.

Utricularia vulgaris sens. lat L.

Greater Bladderwort

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

Free-floating, insectivorous perennials found in still or sluggish, acidic to basic, nutrient-poor

waters over inorganic or peaty substrates. Flowering is irregular. It has declined in many areas, mainly due to drainage, peatland destruction and eutrophication.

First listed in 1846 by P. Gray at Lochar Moss. As can be seen rarely recorded since. Likely to have declined due to changes to habitat, particularly improved drainage.

Site	Gridref	Date	Recorder
Loch Urr	NX760845	10/09/1996	Day, J. Willby, N.J.

Vaccinium uliginosum L.

Bog Bilberry

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Scarce declining.

A low shrub, locally common on podsolic or peaty acidic soils in upland dwarf-shrub heaths and blanket bog. Nationally stable. Circumpolar boreo arctic montane element.

First recorded by J.T. Johnstone on White Coombe in 1891. The only other record in The Flora is from Castle O'er. Both this and the Archie Grain Burn population are likely to have disappeared under conifer plantations. Very small populations still survive in at least three places in the Moffat Hills.

Site	Gridref	Date	Recorder
Firthhope Rig NT11M	NT11M	25/07/2009	Miles, C.J.
Saddle Yoke NT11L	NT158143	00/00/1973	Ratcliffe, D.A.
Mid Craig	NT16321654	08/08/2015	Miles, C.J.
E of the Long Grain, Archie			
Grain Burn	NT293065	15/06/1968	Corner, R.W.M.

Valerianella locusta (L.) Laterr.

Common Cornsalad

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Scarce.

A native winter-annual which occurs with other annuals on thin soils around rock outcrops and on scree, and on sand dunes and coastal shingle. It also grows in a wide range of disturbed habitats, including walls, gravel paths, railway tracks, in paving, gardens and, rarely, on arable land. Coastal populations are often the dwarf var. *dunensis*. Nationally the distribution of *V. locusta* is broadly stable, with some local losses. European temperate element; widely naturalised outside its native range.

First listed by P Gray in 1842 and known from along the shore between the Annan and Kirtle Water. Grows on light sandy soil on the coast but not recently found inland.

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Site	Gridref	Date	Recorder
Powfoot	NY15086575	23/05/2015	Miles, C.J.
Annan Waterfoot	NY1864	19/04/1975	Martin, J.D.S.
Dornock Brow	NY2635	1996	Miles, C.J.

Also recorded in NX98

Veronica catenata Pennell.

Pink Water Speedwell

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

This usually annual species is found in shallow water and on the muddy edges of rivers, streams, ponds and lakes, in dune-slacks, and in clay-, gravel- and chalk-pits. Although often found with *V. anagallis-aquatica*, its habitats are more restricted, being more frequent on the muddy edges of standing waters. Nationally its distribution is stable. Circumpolar temperate element, with a disjunct distribution.

Not listed in The Flora so the first record may be by Dr. G. Watt in 1956. Very infrequent compared to V. anagallis-aquatica and appears to favour regular disturbance eg through cattle trampling.

Site	Gridref	Date	Recorder
Eskdalemuir,nr Midraeburn	NY259997	04/09/1956	Watt, G.
Carthat Hill	NY0677	21/07/1997	Miles, C.J.
Eastpark WWT	NY05456542	11/06/2015	Miles, C.J.

Vicia lathyroides L.

Spring Vetch

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

An annual of sand dunes and short, summer-parched grasslands on sandy soils by the coast; also on disturbed ground, old walls, and in dry heathland on sands and gravels inland. Often overlooked because of its small size and early flowering habit. Nationally its population is stable. European temperate element.

Only one record ever made. This was confirmed by an expert. This occurs across the Solway at Silloth but is also rare there. It needs looking for on the stable sandy shingle at the top of the shore. It is difficult to separate from V. sativa which may mean it is under recorded.

Site	Gridref	Date	Recorder
Powfoot	NY1465	13/05/1979	Cameron, J.

Vicia orobus DC. Wood Bitter Vetch

National Status: Scarce, Near Threatened. Status in Dumfriesshire: Scarce, declining.

A native perennial herb of grassy, often slightly base-enriched habitats on banks and the edges of fields, particularly amongst stones, boulders or bushes. Nationally this species is adversely affected by overgrazing and undergrazing, both of which have contributed to its decline, though losses have also resulted from grassland improvement and land reclamation. Britain has a significant proportion of the world population of this species. Suboceanic temperate element.

This was first mentioned by Mr. Winch in 1777 in the Euchan and Kello Water woods. It grows in small quantity on rocky ground. Long lasting once established unless habitat changes. It appears to have declined possibly due to grazing pressure or habitat changes. A similar situation applies in Cumbria.

Site	Gridref	Date	Recorder
Hallscar Craig	NS7701	1961	Stirling, A.McG.
Glenwhargen Craig	NS7603	1959	Stirling, A.McG.
Auchentaggert Bridge,			
Mennock Burn	NS823087	09/07/1984	FitzGerald, R.
Wanlockhead,nr	NS8710	03/07/1978	Castellan, M.
Moffat, Devil's Beef Tub	NT01	5/7/1894	Linton, E.F.
Firthhope Rig (NT11M)	NT14701403	25/07/2009	Miles, C.J.
Castramon Hill	NX78238355	05/09/2009	Miles, C.J.

Also recorded in NS71, NY27

Vicia sylvatica L.

Wood Vetch

National Status: Not Scarce, Least Concern. Status in Dumfriesshire: Not Scarce, declining.

A climbing or scrambling perennial of hedges, wood-borders and clearings, scrub, rough ungrazed grassland on cliffs, wooded gorges and also on shingle, screes and railway banks. Apparently declining nationally, perhaps due to a reduction in coppicing. Eurosiberian boreo temperate element.

First recorded by J. Saddler at the Grey Mares Tail in 1857 where it remained but was apparently much reduced in 1957 possibly due to collecting. This species appears to have had a spectacular decline with very few recent sightings. It may be that reduced management or coniferisation of native woodland has caused the decline.

Site	Gridref	Date	Recorder
Capplegill	NT1409	19/07/1974	Stewart, O.M.
Grey Mares Tail	NT11X	1957	Ratcliffe, D.A.R.
Castlemilk Sawmill, Water of			
Milk	NY1578	16/06/1974	Little, R.; Martin, J.D.S.
Cocklaw Burn	NY184952	16/11/1991	Corner, R.W.M.

Hollows NY37Z	NY389781	08/07/2007	Miles, C.J.
Canonbie, A7 N of	NY3978	05/06/1983	Watt, G.

Also recorded in NS71, NT11, NT20, NX97, NY18, **NY29(1959)**, **NY38 (1956)**, **NY39(1966)**

Viola canina subsp. canina L.

Heath Dog Violet

National Status: Not Scarce, Near Threatened. Status in Dumfriesshire: Not scarce, declining.

A native perennial herb of a variety of acid habitats, including heaths, coastal dunes, stony riversides and lake shores, especially in Scotland. Nationally this species has declined severely since 1950, mainly due to habitat loss, drainage and agricultural improvement, but also over- and under-grazing and possibly hybridisation with other *Viola* species. Eurosiberian boreo temperate element; also in Greenland.

First record appears to be by C.E.Milligan in 1892 at Dumfries (as *V. flavicornis*). It has not been frequently recorded in recent years and there must be a concern that it has declined further. It could be under recorded as *V. riviniana* as this is by far the commonest violet.

Site	Gridref	Date	Recorder
Euchan Cottage	NS757082	06/07/1982	Martin, M.E.R.
Dalveen, nr	NS893067	18/08/1983	Martin, M.E.R.
Closeburn-Cample	NX896931	15/08/1981	Martin, M.E.R.
Lochmaben	NY077834	04/06/1975	Valentine, D.
Marjoriebanks, N of	NY085837	13/08/1983	Martin, M.E.R.
Lochmaben, W of	NY064819	17/11/1983	Martin, M.E.R.
Gas Distribution Station			
(NY09Z)	NY090988	13/05/2012	Miles, C.J.
Powfoot	NY1665	30/06/1979	Martin, M.E.R.
Lockerbie Curling Pond	NY125805	01/06/1987	Rae, J.
Rosebank	NY161817	28/07/1983	Martin, M.E.R.
Berryscaur, N of	NY163908	29/07/1984	Martin, M.E.R.
Redkirk Point	NY3065	01/05/1974	Martin, J.D.S.

Vulpia myuros (L.) C.C. Gmel.

Rat's Tail Fescue

National Status: Not Scarce, Least Concern.

Status in Dumfriesshire: Rare.

An annual archaeophyte growing by railways, on walls and waysides, in pavement cracks and on waste ground in built-up areas. Occasionally found as a weed of cultivation and as an introduction from wool shoddy, grain and grass-seed mixtures. Nationally on the increase, perhaps via the rail network. As an archaeophyte V. myuros has a Eurosiberian southern temperate distribution

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First record is listed by Rev. Dr. Singer in 1843 from Tinwald. This southern species is very infrequent and may occur as a casual especially in urban settings. It is much less common than V. bromoides which has colonised many forestry tracks.

Site	Gridref	Date	Recorder
Ladypark (NX97Y)	NX983779	11/07/2014	Miles, C.J.
Tinwald	NY006802	26/06/1988	Martin, M.E.R.
Castle Loch (Lochmaben)	NY087820	10/06/1985	Martin, M.E.R.

Also recorded in NT10

Woodsia ilvensis (L,) R. Br.

Oblong Woodsia

National Status: Rare, Endangered. Status in Dumfriesshire: Rare.

An evergreen fern, growing in cracks and fissures in cliffs and crags on rocks ranging from calcareous tuffs and hornblende schists to more acidic tuffs, grits and shales. Sites are very free-draining, with little competition. It suffered serious declines due to collecting in the 19th century. Circumpolar boreo arctic montane element.

First listed by W. Stevens in 1848 from White Coombe. This rare fern, only known from the Moffat Hills in the south of Scotland, was subject to wreckless collecting in the Victorian era and reduced to a very small population. Of the five locations mentioned in The Flora, an original population has only been seen in one of them since 1954 when Derek Ratcliffe was searching for it. Today it is found in other places having been the subject of cultivation and translocation (from spores taken from this remnant population) by Edinburgh Botanic Gardens. Some of these plants have survived for a number of years. The most accessible is in the car park at the Grey Mares Tail at the location given. Other site information is withheld.

Site	Gridref	Date	Recorder
Moffat Hills	NT11	3/8/2010	Miles, C.J.
Grey Mare's Tail	NT18591452	13/07/2006	Whild, S.J. Lockton, A.J.

Zanichellia palustris L.

Horned Pondweed

National Status: Not Scarce, Least Concern

Status in Dumfriesshire: Rare.

This submerged, perennial aquatic grows in a range of shallow-water habitats. The most characteristic include clear chalk streams, eutrophic lakes and ponds, and brackish lagoons, ponds and ditches. It is a frequent colonist of disused mineral workings. Nationally increasing although decreasing in southern England. Circumpolar southern temperate element.

Not recorded in Dumfriesshire before 1996. Only infrequently recorded to date. It may increase due to eutrophication as is suggested has happened in Cumbria.

Site	Gridref	Date	Recorder
Site	Gilaici	Date	Recorder

Rammerscales	NY07	00/06/1999	Miles, C.J.
Castle Loch	NY086814	18/09/1996	Lassiere, O.L. Dines, C.
Purdomestone Reservoir	NY214775	18/09/1996	Day, J. Willby, N.J.

Zostera noltii Hornem.

Dwarf Eelgrass

National Status: Scarce, Vulnerable. Status in Dumfriesshire: Rare.

Although a coastal species, this perennial is found at higher levels of the shore than *Zostera marina*. It grows in sheltered estuaries and harbours, where it is found on mixed substrates of sand and mud. Plants are often concentrated in pools or runnels on the shore. Although declining in some restricted areas overall its distribution is stable nationally. Eurasian southern temperate element.

There are no *Zostera* records for Dumfriesshire in The Flora but it was known from Kirkcudbrightshire. It is probably a rare colonist of the mudflats at Caerlaverock though these tend to be less sheltered than is ideal for the species.

Site	Gridref	Date	Recorder
Caerlaverock	NY0064	00/00/1957	Ranwell, D.S.

Annex 1 List of species currently thought to be extinct in Dumfriesshire

Species Name	National Status	Reason
Allium oleraceum		not recorded since 1896
Alopecurus myosuroides		not recorded since 1887
Anacamptis pyramidalis		not recorded since 1891
Anagallis minima		not recorded since 1896
Atropa belladonna		not recorded since 1955
Baldellia ranunculoides		not recorded since 1896
Brassica nigra		not recorded since 1789
Bromopsis erecta		not recorded since 1896
Bromus commutatus		not recorded since 1984
Bromus secalinus	Nationally Scarce	not recorded since 1896
Cardamine impatiens	Nationally Scarce	not recorded since 1891
Carduus tenuiflorus		not recorded since 1896
Carex elongata	Nationally Scarce	not recordde since 1893
Centaurea cyanus		Not recorded since 1896
Cephalanthera longifolia	Nationally Scarce	not recorded since 1854
Chenopodium urbicum		not recorded since 1896
Cladium mariscus		not recorded since 1896
Crepis biennis		not recorded since 1896
Diplotaxis tenuifolia		not recorded since 1891
Echium vulgare		not recorded since 1896
Epipactis palustris		not recorded since 1850
Eryngium maritimum		not recorded since 1958
Euphorbia exigua	Near Threatened	not recorded since 1896
Frangula alnus		not recorded since 1896
Fumaria densiflora		not recorded since 1890
Gagea lutea		not recorded since 1850
Glaucium flavum		not recorded since 1896
Goodyera repens		not recorded since 1854
Hornungia petraea		not recorded since 1850
Juncus trifidus		not recorded since 1858
Lepidium campestre		not recorded since 1896
Leymus arenarius		not recorded since 1950
Lolium temulentum		not recorded since 1896
Lycopodium annotinum	Nationally Scarce	not recorded since 1896
Melilotus officinalis		not recorded since 1896
Mentha aquatica x M. arvensis x M.sp	oic.	
Oenothera biennis		not recorded since 1885
Onopordum acanthium		not recorded since 1958
Papaver argemone		not recorded since 1950
Parentucellia viscosa		not recorded since 1850
Phleum arenarium		not recorded since 1950
Picris hieracioides		not recorded since 1957
Pilularia globulifera	Nationally Scarce	not recorded since 1884

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Plantago media		not recorded since 1896	
Pyrola media		not recorded since 1896	
Radiola linoides	Near Threatened	not recorded since 1896	
Ranunculus arvensis		not recorded since 1988	
Ranunculus x levenensis		not recorded since 1841	
Rhamnus cathartica		not recorded since 1896	
Salix arbuscula		not recorded since 1934	
Salix x mollissima		not recorded since 1891	
Sanguisorba minor		not recorded since 1896	
Sanguisorba minor subsp. minor		not recorded since 1896	
Scabiosa columbaria		not recorded since 1896	
Scandix pecten-veneris		not recorded since 1896	
Schoenus nigricans		not recorded since 1896	
Scleranthus annuus subsp. polycarpos			
Scrophularia vernalis		not recorded since 1789	
Silene noctiflora		not recorded since 1896	
Trifolium arvense		not recorded since 1896	
Trifolium fragiferum		not recorded since 1970	
Trifolium ornithopodioides		not recorded since 1896	
Valerianella dentata		not recorded since 1896	
Viola hirta		not recorded since 1964	

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