



**A Register of the  
Flora of Conservation Concern  
in Kincardineshire**

**David Elston & David Welch**

**Edition 1**

**April 2024**



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David Welch and I first discussed the prospect of writing a Rare Plant Register for Kincardineshire in April 2020. Since then, despite the restrictions during the Covid pandemic, much effort has been expended both in field work to fill gaps in spatial coverage and in online searches of herbarium catalogues make the historical content of the Register more complete. Shortly before David died in May 2023, his final communication to me was encouragement to finish what we had started. Although I am sure there are aspects which his detailed insights could have improved, I hope he would have been pleased with the end result.

David Elston, March 2024

Cover photo: *Cystopteris dickieana* Dickie's Bladder-fern at Cove Bay.

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## **1. Introduction**

### **1.1 Scope**

This Register is one of a series of similar documents created under the 'Rare Plant Register' guidelines developed by the Botanical Society of Britain and Ireland (BSBI). It summarises the known distributions of those elements of the flora of Kincardineshire which are of greatest conservation concern.

### **1.2 Kincardineshire**

Since the 1850s, natural history recorders in Britain and Ireland have used vice-counties as their principal spatial units. The former county of Kincardineshire is one such unit. Broadly, Kincardineshire is bounded:

to the north by the course of the River Dee (excepting in the vicinity of Banchory);

to the east by the North Sea;

to the south by the River North Esk, upstream almost to the Rocks of Solitude;

to the west by a route over the South Deeside Hills which crosses the summit of Mount Battock and reaches the River Dee just downstream of Potarch Bridge.

Within Kincardineshire, the principal sub-units used for old records are parishes but these have given way to squares of different sizes defined by the Ordnance Survey's national grid. A map of Kincardineshire, with its constituent parishes, can be seen overlying various base maps by following the link

<https://www.genuki.org.uk/node/170644/countymap>

from which it will be observed that the boundaries of Kincardineshire have remained fixed over time whereas the courses of the rivers to the north and south have made some slight but significant deviations.

A map of Kincardineshire with places used as lead site names in this Register has been produced by Andy Amphlett and is included here as Figure 1.

### **1.3 Elements of the flora under consideration**

The taxonomic groups covered are those described in traditional British floras, namely:

ferns, horsetails and allies (pteridophytes);

conifers (gymnosperms);

flowering plants (angiosperms) including those with petals (e.g.

buttercups) and those without (e.g. grasses);

stoneworts (charophytes).

### **1.4 Selection of species, subspecies and hybrids**

The intention for species to be considered for inclusion in Rare Plant Registers is that they must have been recorded growing in the wild in the relevant vice county, having arrived of their own accord (natives) or by association with human activity pre-1500CE (archaeophytes). In practice, identification of native and archaeophyte status at vice county level can be difficult to establish with certainty, but strong indications are available from the status of species at national level combined with past assessments at a local level. We have chosen to include all hybrids of natives and / or archaeophytes. Species which have arrived more recently with human activity (neophytes), and hybrids involving neophytes, are excluded.

Amongst the natives and archaeophytes, the requirements for inclusion are either that the species be listed under one of three national designations or that the species has a sufficiently restricted distribution in Kincardineshire to warrant inclusion on local grounds. Subspecies have been included where the national designations are subspecies-specific, but otherwise subspecies have largely been ignored. See 2.2 below for more details of inclusion criteria.

## **1.5 Objectives**

There are two reasons to producing this Register.

### **For people**

Kincardineshire hosts a diverse flora, comprising many widespread species that are familiar to the majority of the population together with an under-appreciated set of species and hybrids with distributions that are restricted either nationally or locally. The intention of this Register is to provide information about those species and hybrids with restricted distributions, empowering people who wish to try to find them and encouraging those who are successful to report their findings and so help improve knowledge about our flora.

### **For the listed species, hybrids, and other forms of wildlife**

It is only by having access to information about the distributions of our flora that land owners and managers can take steps to enhance populations or at the least avoid damage. Hence it is hoped that the production of this Register will help enable land owners and managers to make more informed decisions when these affect flora of conservation concern. And since plants form the base of the food chain, maintaining a diverse flora is an essential component of good ecological management regardless of the ultimate objectives.

## **2 Process**

### **2.1 Data available**

One of the most treasured assets of the BSBI is its Distribution Database (DDb). At the time of finishing writing this Register in February 2024, the DDb contained some 62.8 million records, of which 9.0 million were from Scotland and 155,000 were from Kincardineshire. As well as storing records, the DDb provides many useful search tools, some of which are openly available, particularly the ability to obtain maps of the distributions of species (<https://bsbi.org/maps>) or to obtain lists of the occurrence of species at 10 km by 10 km (hectad), 2 km by 2 km (tetrad) or 1 km by 1 km (monad) square resolutions (<https://database.bsbi.org/gridref.php>).

### **2.2 Selection of candidate taxa (species, subspecies and hybrids)**

Firstly, the DDb was first used to identify all taxa ever recorded in Kincardineshire. Those not considered to be natives, archaeophytes or hybrids thereof in Kincardineshire were dropped. The primary source of this information was the Vice-County Census Catalogue (VCCC, Stace *et al.* 2003), then being accessible from the now defunct link <http://www.botanicalkeys.co.uk/flora/vccc/index.html>. The VCCC listing for Kincardineshire required some updating to take account of taxonomic changes and new arrivals.

Secondly, three national listings were consulted, and all taxa selected in this way were automatically included in the Register, regardless of their local distribution. The national listings used were as follows.

a) An assessment of all species and subspecies in Great Britain using IUCN criteria (GB-IUCN). The methodology for this assessment is described in Cheffings and Farrell (2005), whilst the results of the most recent assessment were used (available from [www.bsbi.org/taxon-lists](http://www.bsbi.org/taxon-lists)). The Register contains all taxa classified as near threatened (NT) or above, the additional classes used being: vulnerable (VU); endangered (EN); critically endangered (CR) and regionally extinct (RE). Conversely, taxa classified as being of least concern (LC), or about which there was insufficient information to make a classification (data deficient, DD), were not included on the basis of this GB-level classification.

b) An assessment of how widely distributed species and subspecies are in Great Britain, based on the number of hectads they have been recorded from (GB-H), as described on P7 of Preston, Pearman & Dines (2002) but using the latest available lists (<https://bsbi.org/taxon-lists>). Under this criterion, species occurring in 15 or fewer hectads are considered to be Nationally Rare (NR), whereas species occurring in from 16 to 100 hectads are considered to be Nationally Scarce (NS).

c) An assessment of all species and habitats in Scotland (Scott Wilson 2005). The Register includes all species included in the most recent (2012 revision) Scottish Biodiversity List (SBL) on ecological grounds (SBL-E) (available from <https://www.nature.scot/scotlands-biodiversity/scottish-biodiversity-strategy/scottish-biodiversity-list>). Species included in the Scottish Biodiversity List because they met the social criterion have been excluded on the basis that not only are they widespread in Kincardineshire but more pertinently the social lists are taxonomically diffuse (including, for example, "Oaks", "Ferns" and "Thistle").

Thirdly, the DDb was used to count the numbers of hectads (No.Hec), tetrads (No.Tet) and monads (No.Mon) each taxon had been recorded from in Kincardineshire during the period 2000-2019. This time period was selected as it corresponds to the BSBI Atlas 2020 project (see <https://bsbi.org/plant-atlas-2020>), towards the end of which field visits were planned to achieve good coverage at hectad level. We chose to retain only taxa which satisfied all three of  $\text{No.Hec} \leq 11$  and  $\text{No.Tet} \leq 11$  and  $\text{No.Mon} \leq 17$  for further consideration. Unlike with the assessment against national criteria, subspecies were not used for this local assessment of status.

Species which are considered natives or archaeophytes within other parts of Britain and Ireland, but which clearly only exist in Kincardineshire as a result of deliberate planting or other means of introduction, have been excluded. Thus, there is no place in the register for *Schoenoplectus tabernaemontani* (Grey Club-rush) as this is only known from planted material at St Fittick's Community Park, Torry, where it seems to be doing rather well.

### **2.3 Sifting and summarising records**

All apparent records in the DDb for the candidate taxa were downloaded, sorted and sifted. The intention of the sorting and sifting of these records was to identify the set of sites each taxon has been recorded from, and for each taxon-site combination to select a representative lead record to include in the Register. Records found to be in error were amended or removed, whilst further desk-based investigation and fieldwork led to the inclusion of additional records. The end result of this process was, for each

taxon, to produce a set of lead records that collectively and concisely summarise the sites at which that taxon has been recorded using all available data from field visits up to December 2023. Assignment of local status is discussed in Section 2.4.

In practice, many taxa do not occur at a discrete set of sites, but occupy something akin to pockets either along a linear feature such as a coast line or amongst a block of habitat such as a forest. Hence a certain amount of judgement has had to be used in how many sites to group the records into, and consequently how many lead records to include in the register and ultimately how to allocate local status. Established practice, which we used as a guide, is to consider records within 1 km of one another as coming from a single site. However, there were some notable departures from this, for example at St Cyrus for which all records from along the disused railway line were regarded as a coming from a single site, likewise all records from the nature reserve grassland and cliffs were regarded as coming for a single site. So when there was both a record from the disused railway line and a record from the nature reserve grassland and cliffs these were regarded as coming from two different sites.

In a few instances, DDb entries proved not to be records of presence, examples being the reassessment of herbarium material or records of searches for a species that were not successful. These were removed from further consideration.

When sifting records from similar locations, factors used to decide which to use as lead records for a site were: year of record (preference was given to more recent records); spatial precision (preference was given to the records with greater precision); ancillary information (preference was given to records with associated habitat descriptions or assessments of abundance); name of recorder (with the intention of keeping a set of records that collectively display the range of individuals who have contributed records). Of these factors, the one that was most strongly applied was the year of record with records from 2000 onwards always taking precedence over records dated 1999 or previously. Also, a deliberate decision was taken always to select one record to authenticate the most recent year in which each taxon has been recorded. An important consequence of the grouping of records to form sites is that there may be additional records of a taxon in the near vicinity of each lead record presented.

Consideration of very old records presented a particular problem, as many of them pre-date the national grid. The source records refer to parishes, and places within parishes, which will have required some subjective interpretation by those tasked with allocating grid references to records for entry into the DDb. Consequently, where ancillary information suggests the locations of old records differ from more recent ones, these have been retained even if the old record apparently lies near the grid reference for a more recent record.

Some taxa that have been classified as noteworthy under the national criteria listed in 2.2 above are actually widely distributed in Kincardineshire, making impractical any attempts at an exhaustive listing of sites to represent their current distributions. For these taxa, a representative sample of 10 lead records has been selected.

Not all records in the DDb can be considered reliably identified to species or subspecies level. This can happen for a number of reasons, including: changes in taxonomy due to a splitting of species or movement of species boundaries; plants not

being in the required state (usually flowering or fruiting) to enable detailed identification; and caution on the part of the recorder. Hence in several instances we list groupings of species 'in the broad sense' *sensu lato* (s.l.) rather than 'in the narrow sense' *sensu stricto* (s.s.). These instances are: Fragrant-Orchids *Gymnadenia conopsea* s.l.; Cranberry / Small Cranberry (*Vaccinium oxycoccos* s.l.); and two Bladderwort composites *Utricularia vulgaris* s.l. and *Utricularia intermedia* s.l. . Where recorders have tended to use aggregate categories but only one species is believed to occur locally (as with *Arctium minus* s.l. the Lesser Burdock grouping and the species *Arctium nemorosum* Wood Burdock), all records of the aggregate were re-allocated to the species *sensu stricto*.

#### 2.4 Assignment of local status

After sifting the records for each taxon and allocating them to sites, all taxa have been assigned a local status. This has been done on the basis of the year of the latest record (Ylr) for the taxon and the number of sites from which it has been recently (from 2000 onwards) been recorded, denoted N2000+. The conditions used to define local status were:

Ylr < 1970 and so N2000+=0, locally extinct (LE);

1970 ≤ Ylr < 2000, and so N2000+=0, locally with no recent records (NRR);

Ylr ≥ 2000 and 1 ≤ N2000+ ≤ 3, locally rare (LR);

Ylr ≥ 2000 and 4 ≤ N2000+ ≤ 10, locally scarce (LS).

Taxa included on the basis of national criteria but with more sites than required to be classified as locally scarce were classified as locally other (LO).

The limits on numbers of sites defining the locally rare and locally scarce classifications form part of the BSBI protocol for Rare Plant Registers. The years to which they relate have been locally selected. Identifying two classes of recent absence, no records since 1969 (so almost certainly locally extinct, LE), and no recent (from 2000 onwards) records (NRR) is a departure from BSBI guidelines but gives the user of the Register the opportunity to choose what level of certainty to use to define apparent extinction. All taxa designated NRR are certainly locally rare, hence allocated the designation LE/LR in the pro-forma Excel files that accompany the Register.

Although not satisfying the initial definition of local extinction used, four further species were reclassified as extinct on the basis of having been restricted to a single site that has been knowingly lost. The species reassigned to the extinct group were:

*Lathyrus japonicus* Sea Pea and *Mertensia maritima* Oysterplant for which their only present site was destroyed by the construction works for a new harbour in Nigg Bay;

*Pseudorchis albida* (Small-white Orchid) for which the only site near Newtonhill was lost under dense gorse;

*Juncus filiformis* (Thread Rush) for which the only site by Loirston Loch was destroyed by road building and an attempted translocation was unsuccessful.

#### 2.5 Standardisation of lead records for presentation in the Register

Records have been provided and uploaded to the DDb by multiple individuals, all following the same guidelines but with slightly different interpretations. In order to achieve a more uniform presentation for this Register, some post-processing has been required.

One aspect requiring standardisation was the allocation of location names. This needed to be undertaken as the transition in the field from one location to another is not always clear and also to be sure that each lead record begins with a location shown on the map in Figure 1. These changes have been informed by the grid references, and in particular have resulted in the use of a standard set of location names when moving northwards along the coast from St Cyrus to Nigg Bay. Transition points between location names have attempted to respect parish boundaries to facilitate comparison with historical records. Location name changes were only made for old records when there is exact correspondence (Loch of Drum now being called Loch of Park) as there may be subtle information hinting at the genuine location in the wording used. Finally on location names, a standard naming convention was used for records of all ages where the DDb location was simply a re-iteration of the grid reference.

A second aspect requiring some standardisation was the provision of additional site-specific or habitat information, which was variously allocated to the location entry of the DDb or to additional comments. After some deliberation, this supplementary information was considered sufficiently important for refinding records that succinct habitat notes now appear where available after the location name in the Register.

## **2.6 Relationship between lead records in the Register and in the DDb**

These standardisations have the distinct benefit of making the Register more coherent. However, it should be noted that lead records in the Register are no longer identical to their counterparts in the DDb. In a very few instances, inconsistencies between location and grid reference were found and further investigation indicated that the grid references should be changed. In this instance only, the DDb has been updated accordingly.

## **2.7 Derivation of the years of first and last records**

Many records, particularly old ones, cover a span of more than one year, e.g. 1820 – 1859 for records derived from Dickie (1860). To allow for this, the year at the beginning of the interval was generally used when considering the earliest record, whilst the year at the end of the interval was used when considering the latest record. Exceptions to this general rule were made when it was considered clear which particular year(s) within the interval relevant records had been made.

## **2.8 Updating and nomenclature**

Since the first steps towards producing this Register were taken in 2020, many changes have taken place. More taxa have been found in Kincardineshire, more sites have been found for existing taxa, new records have been made at known sites, two of the national criteria (IUCN-based assessment and the BSBI-led assessment based on hectad occupancy) have been updated and BSBI has adopted the nomenclature used by Stace (2021). The drafting of this Register has attempted to keep up with these changes as best as possible. Nomenclature for groups either not, or only partially, covered by Stace (2021), hereafter Stace 4, is based on the following:

- for charophytes, Bryant, Stewart and Stace (2002);
- for *Rubus fruticosus* agg. (Brambles), Edees & Netwon (1988);
- for the genus *Taraxacum* (Dandelions), Richards (2023);
- for the genus *Hieracium* (Hawkweeds), Sell & Murrell (2005).

### 3 Presentation

#### 3.1 Separation of "critical" groups of species

Brambles (*Rubus fruticosus* agg.), Dandelions (*Taraxacum*) and Hawkweeds (*Hieracium*) are particularly difficult to identify as seed is almost invariably set without pollen, hence offspring are effectively clones of their mother. For this reason, differences between clonal lines are often small, and sometimes referred to as microspecies. We present these critical groups separately from the remainder. Some caution should be exercised in the interpretation of the allocated local status of these species: since fewer recorders have played a role in discovering sites for them, it is likely they will not be so well recorded as other, more distinctive, species groups. This is particularly true of the dandelions. However, for brambles, the presence of the Scottish lead recorder means that Kincardineshire is one of the best recorded vice-counties in Scotland.

#### 3.2 Taxon tables

The BSBI pro-forma for Rare Plant registers requires the production of two Excel files, one with a row for each taxon, the other with a row for each lead record. The pro-forma file containing the lead records in full has rather a large number of columns, making it unsuitable for a free-standing document. Consequently, tables comprising an abridged set of columns are presented here.

Each taxon is given a reference code starting with a letter M, E or C to indicate whether it appears in the main list (M), the list of species considered extinct (E) or the list of critical species (C) comprising Brambles, Dandelions and Hawkweeds. The initial letter is followed by a number, indicating position within the register which, for M and E, follows the taxonomic ordering of Stace 4 but for C is alphabetical within genus, the genera themselves appearing in Stace 4 ordering. This ensures that species from the same family (say the orchids) always lie close to each other even though they are split between multiple genera and so would be widely separated were an alphabetical listing to be used throughout.

A typical entry for a taxon in the Register is given in the extract on page 9. The entry comprises, at the top, information about the taxon:

row 1, a reference code, scientific name and authority;

row 2, a vernacular (English) name;

row 3, the local origin, whether a considered Native, an Archaeophyte or, in the case of a hybrid, the status of its parents (e.g. Native x Archaeophyte);

row 4, any of the three national status categories accorded as in 2.2 above, always in the order of description in 2.2, with comma separators between categories and a dash to indicate no designation;

row 5, the local status along with the number of sites at which it has been recorded from 2000 onwards, also the numbers of hectads (No.Hec), tetrads (No.Tet) and monads (No.Mon) that it was recorded from in the period 2000-2019;

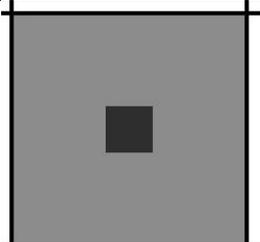
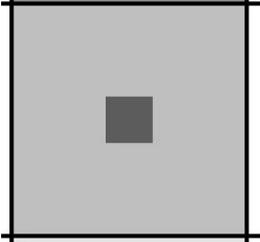
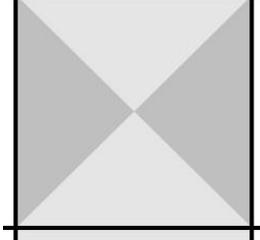
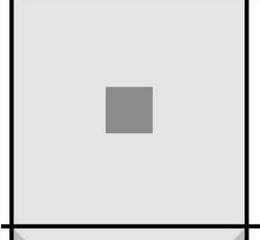
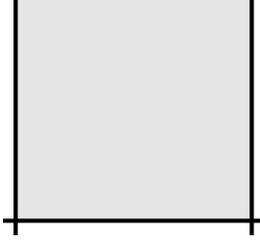
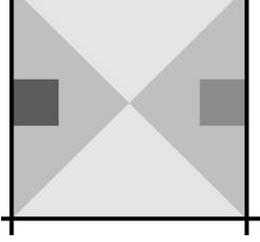
row 6, the period over which it has been recorded in Kincardineshire;

row 7, the habitat where it is most likely to be found (based on both local and external knowledge);

row 8, some commentary comprising a brief description of the plant (except for critical groups), the local status and occurrence, finally some contextual information about

occurrence elsewhere which was believed correct at the time of writing but may have been superseded by new discoveries.

The top right-hand corner of each table contains a distribution map showing the outline of Kincardineshire and adjacent vice-counties with a super-imposed 10 km by 10 km grid. Records at hectad and tetrad level are shaded to distinguish whether records are from 2000 onwards, from 1970 to 1999, or up to 1969. Darker shading indicates more recent records. Tetrads are shaded according to the period of the most recent record. For hectads, since almost all records from 2000 onwards are at tetrad resolution or finer, earlier periods have been given preference with the proviso that, should a hectad have records from both the earlier periods then triangles of both mid grey and light grey are used. The pictorial symbols used for tetrads are shaded according to year of most recent record in the tetrad with darker shades indicating more recent records.

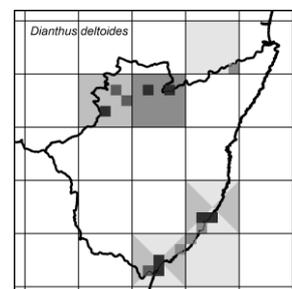
Text Table 1. Demonstration of symbols used in mapping			
Hectad symbol	When hectad symbol used	Tetrad symbol	When tetrad symbol used
	Only records from 2000 onwards present in hectad		Records from 2000 onwards present in tetrad (and only such records in hectad)
	Records between 1970 and 1999 present in hectad, no records prior to 1970, possibly records from 2000 onwards		Records between 1970 and 1999 present in tetrad (and only such records in hectad)
	Records prior to 1970 and records between 1970 and 1999 both present, possibly records from 2000 onwards		Only records prior to 1970 present in tetrad (and only such in hectad)
	Records prior to 1970 present in hectad, possibly also records from 2000 onwards.		Only records prior to 1970 present in right tetrad, records between 1970 and 1999 but not later present in left tetrad.

Below the central header bar of each table are the selected lead records. Those dated 2000 onward appear at the top in bold upright font, those dated from 1970 to 1999 in standard upright font, whilst those dated 1969 or earlier appear in italics. The entries in all columns are hopefully self-explanatory, with the exception perhaps of the grid references, particularly of records at tetrad resolution: see Annex 1 for details. Grid

references relating to occurrence of species within habitat polygons (rather than the usual grid squares) are followed by the symbol “Ø”.

Text Table 2: Extract from the Register demonstrating many of the elements described above.

<b>M138 <i>Dianthus deltooides</i> L.</b>			
<b>Maiden Pink</b>			
<b>Local Origin</b> Native			
<b>National Status</b> NT, NS, -			
<b>Local Status</b> LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/5/6			
<b>Earliest to Latest Record (or start and end of intervals)</b> 1820 to 2023			
<b>Habitat</b> Dry, neutral or basic, grasslands.			
<b>Commentary</b> Loosely tufted perennial, the stems erect, the leaves in opposite pairs, the flowers having toothed, shocking-pink petals that only open in sunlight. Locally scarce, the population at St Cyrus is very large, otherwise populations are small and many former sites have been lost. Elsewhere widespread but local, in the northern half of Scotland mostly in sandy/basic grasslands at the coast or on river shingles though not along the River North Esk.			
<b>Location</b>	<b>Grid Ref</b>	<b>Year</b>	<b>Recorder / Reporter</b>
St Cyrus NNR, dune grassland	NO7463	2019	Routledge, G.
Kinneff, Castle Hill, above cliffs	NO84887387Ø	2011	Green, I.
Durris, grassland by R Dee	NO77159670	2023	Cook, P.
Banchory, North bank R Dee	NO72189647	2009	Welch, D.
Strachan, gravelly entrance to parking area	NO64359236	2021	Welch, D.
Banchory, S bank of R Dee	NO698952	1977	Marren, P.
Inchmarlo, by R Dee	NO671963	1977	Welch, D.
St Cyrus, Braes of Commieston	NO76G	1848	Farquharson, J.
Johnshaven, Brotherton, links to the east	NO76Y	1820-1859	Stephen
Burn of Benholm, at bridge	NO8069	1835-1845	New Statistical Account
Gourdon, road-side above	NO8271	1820-1859	Stephen
Inverbervie	NO8372	1911	Thomson, A.
Banchory-Devenick Parish, on R Dee shingle above Ardoe	NJ8901	1880-1919	Trail, J.



Some additional features in the layout of the tables are as follows.

Missing information, most frequently the name of the recorder / reporter, is left blank.

Where a taxon has been recorded at a site more recently than the selected lead record, the year of the most recent record is given in parentheses alongside the year of the lead record. In this way, more credit can be given to earlier recorders.

Where a more recent recorder has not taken a detailed grid reference, but a detailed grid reference is available from an earlier record at the same site, the letter R after the grid reference indicates this has been brought forward from an older record.

Where records for a taxon comprise distinct parts, for example because of the subspecies traditionally recorded for *Alchemilla filicaulis* Hairy Lady's-mantle, the

distinction between the records of different subspecies (or not made to subspecies level) is made by further divisions of the table. The national status of each sub-division is given.

When a species has been included on national grounds but records are more widespread than required for it to be classified as Locally Scarce, the word SAMPLE appears above the ten selected lead records. The full set of records was used to generate the corresponding distribution map.

Records which are knowingly of introduced or planted material are presented below a line with wording "INTRODUCED / PLANTED". The locations of such records are not shown on the distribution maps. In practice, differentiating between individuals that have been planted and individuals that have arrived of their own accord becomes increasingly difficult with the passage of time and it is likely that many such instances have escaped attention.

## **4 The Register**

### **4.1 Full listing**

In total, 449 taxa meet the criteria for inclusion in the Register and are listed in Table 1. These are presented in alphabetical order, with their reference code, vernacular name, local origin, local status and year of latest record.

### **4.2 Extinct species or hybrids (LE)**

Ignoring until 4.8 the species in the "critical" groups, the process described above identified 74 species and 5 hybrids recorded in Kincardineshire that are considered locally extinct (Table 2). Of these, 42 were last recorded prior to 1900 and a further 20 prior to 1950. Four of the extinct species have been recorded from 1970 onwards but have had all known sites destroyed.

### **4.3 Nationally designated**

Discounting taxa that are considered locally extinct, 61 species and 3 subspecies were identified as meeting one of the national criteria for inclusion. These are listed in Table 3, along with the current assessment of their local status. It will be noted that the following 12 species are sufficiently widespread in Kincardineshire that they would not be included solely on the basis of numbers of sites from 2000 onwards. Hence Kincardineshire has an important role to play in the protection of:

*Astragalus danicus* (Purple Milk-vetch);  
*Euphrasia arctica* (Arctic Eyebright);  
*Euphrasia micrantha* (Slender Eyebright);  
*Euphorbia helioscopia* (Sun Spurge);  
*Fallopia convolvulus* (Black-bindweed);  
*Galeopsis speciosa* (Large-flowered Hemp-nettle);  
*Glebionis segetum* (Corn Marigold);  
*Juniperus communis* (Juniper);  
*Omalotheca sylvatica* (Heath Cudweed);  
*Spergula arvensis* (Corn Spurrey);  
*Sinapis arvensis* (Charlock); and  
*Viola tricolor* (Wild Pansy).

At the other end of the scale, for the following 5 of these 64 taxa there are no recent (2000 onwards) records, and it may soon become necessary to consider some of these as being locally extinct:

*Blitum bonus-henricus* (Good-King-Henry);  
*Carex maritima* (Curved Sedge);  
*Cochlearia officinalis subsp. scotica* (Scottish Scurvygrass);  
*Euphrasia confusa* (Confused Eyebright);  
*Euphrasia scottica* (Scottish Eyebright).

#### **4.4 Species or hybrids with no recent records (NRR)**

Of the taxa considered extant but not warranting inclusion on national grounds, there are 9 species and 4 hybrids with no recent records. These are listed in Table 4 and are all candidates for being considered as locally extinct. One of these, *Callitriche platycarpa* (Various-leaved Water-starwort), is difficult to separate from the widespread species *Callitriche stagnalis* (Common Water-starwort) and so may have been overlooked.

#### **4.5 Locally rare species or hybrids (LR)**

A further 83 species and 21 hybrids are currently classified as locally rare (LR). These are listed in Table 5 along with the number of sites each has been recorded at from 2000 onwards. All but 9 of these have been recorded from 2010 onwards. Those last recorded in the decade from 2000 to 2009, hence most deserving of attention in the hope of rediscovery, are:

*Potamogeton pusillus* (Lesser Pondweed, 2001);  
*Sparganium angustifolium* (Floating Bur-reed 2001);  
*Myosotis laxa x scorpioides* = *M. x suzae* (A Hybrid Forget-me-not, 2002);  
*Trocdaris verticillata* (Whorled Caraway, 2002);  
*Carex rostrata x vesicaria* = *C. x involuta* (A Hybrid Sedge, 2005);  
*Anthriscus caucalis* (Bur Chervil, 2006);  
*Euphrasia arctica x tetraquetra* = *E. x pratiuscula* (A Hybrid Eyebright, 2007);  
*Euphrasia arctica x confusa* (A Hybrid Eyebright, 2008);  
*Centaureum erythraea* (Common Centaury, 2009).

Amongst the hybrids classified as locally rare it is likely that several are under recorded and are likely to be demoted from locally rare with the collection of additional records, including:

*Rumex crispus x obtusifolius* = *R. x pratensis* (A Hybrid Dock);  
*Salix caprea x cinerea* = *S. x reichardtii* (A Hybrid Willow).

#### **4.6 Locally scarce species or hybrids (LS)**

Of the more widespread taxa without national designations, 107 species and 7 hybrids are currently classified as locally scarce (LS, Table 6). All of these have been recorded from 2010 onwards. Perhaps the most remarkable of these locally scarce species is *Scutellaria galericulata* (Skullcap) for which all recent records lie in a single hectad (NO79). By its nature, the locally scarce group of species includes some which will be omitted from future editions of the register altogether as additional fieldwork leads to the discovery of more sites. The taxa with 10 recent sites, hence most likely to be excluded from future editions of this Register, are:

*Carex pauciflora* (Few-flowered Sedge);  
*Eleocharis quinqueflora* (Few-flowered Spike-rush);

*Ervilia sylvatica* (Wood Vetch);  
*Lythrum portula* (Water-purslane);  
*Mentha aquatica x spicata* = *M. x piperita* (Peppermint);  
*Myosotis sylvatica* (Wood Forget-me-not);  
*Potamogeton crispus* (Curled Pondweed);  
*Salix pentandra* (Bay Willow);  
*Trifolium arvense* (Hare's-foot Clover).  
*Veronica agrestis* (Green Field-speedwell).

#### 4.7 Combinations of designations

Many taxa appear in the register on multiple grounds. The numbers of taxa satisfying each combination of inclusion criteria is given below. The column labelled LO (for locally other) indicates the presence of taxa qualifying for inclusion on the basis of national designations only, meaning they would not have been included in the Register solely on the basis of local occurrence. Numbers of hybrids are given in parentheses and only appear in the bottom row as they appear not to have been given any national designations.

Text Table 3: Cross-classification of justifications for species being included in the register (hybrids in round brackets, subspecies in square brackets).

National designations			Local status				
GB-IUCN	GB-H	SBL	LE	NRR	LR	LS	LO
RE			1				
CR			1				
EN	NR	Y	1				
EN	NS	Y	3	1			
EN		Y			1		2
EN			2				
VU	NR	Y	2		1		
VU	NS				1	1	
VU		Y	3	1	6	2	1
VU			1	1			3
NT	NS	Y	1		2		
NT	NS		3		1	2	
NT		Y	1		3	2	1
NT			2	1	5	3	1
	NR						
	NS	Y	1	[1]	1		
	NS		4		3[1]	[1]	
		Y	7		7	4	4
Taxa with no national designations			41(5)	9(4)	83(21)	107(7)	

#### **4.8 Species from critical groups**

Of the species deemed eligible for inclusion in the Register, 75 were in the critical groups of Brambles (*Rubus fruticosus* agg., 16 species), Dandelions (*Taraxacum*, 44 species) and Hawkweeds (*Hieracium*, 15 species). These are listed in Table 7. One of the Hawkweeds, *Hieracium subcrocatum* (Dark-styled Hawkweed) has only been recorded once, in 1952, and so meets the criterion for local extinction. Although several Brambles and Hawkweeds have been excluded on the basis of being recorded at too many sites in Kincardineshire from 2000 to 2023, the same cannot be said about Dandelions of which very few species have been recorded during this period. Thus, considerable further effort is required to update our understanding of the distributions of Dandelions within Kincardineshire.

### **5 Enhancements**

This Register demonstrates what an extraordinary amount of information is already available about the flora of Kincardineshire. However, much more needs to be done.

Late during the preparation of this Register, it came to light that, although many of the historical records contained in the books of Murray (1836) Dickie (1860) and Trail (1923) have been included in the DDb, the process by which they were added was not exhaustive (McIntosh, personal communication). Hence a review of gaps, and creation of new DDb records to fill them, is required.

It would be useful to gain some quantitative understanding of how numerous or extensive taxa listed in this Register are where they are known to occur: the majority of records currently have no such assessment. An additional objective would be to make on-site assessments of any threats to each population of interest.

There is a need to continue recording both at sites where taxa in the Register are known to occur, and elsewhere in Kincardineshire to find unknown or newly established sites. Rare plants by their very nature are easily missed and most may occur in places where they have yet to be found. Only through continued recording can we build a more complete picture of their distributions and become more confident in our knowledge about their distributions.

It is important that anybody making visits to find or record the flora behaves responsibly whilst doing so. In particular, this means following both the BSBI Code of Conduct (available for download from <https://bsbi.org/resources>) and the Scottish Outdoor Access Code (<https://www.outdooraccess-scotland.scot/>).

Finally, a document of this scale will inevitably contain some errors. It is intended that the Register will be updated regularly to incorporate new records and updates of national designations: known errors will then be corrected too.

### **6 Acknowledgements**

Producing this Register has only been possible because of the efforts of many botanical recorders, collectors of specimens, reporters and collators of botanical observations, curators of the subsequent records and the managers of the BSBI Distribution Database who have developed the search functions we have used so

extensively. We are grateful to all involved. In addition, we thank Andy Amphlett for creating the map of Kincardineshire presented in Figure 1 and we thank Alison Peaker, Carol Blow and Jake Brendish for helpful comments on draft material. Finally, we thank the owners and managers of land in Kincardineshire who, whether through conscious choice or benign neglect, have collectively maintained the diverse and fascinating flora of Kincardineshire.

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### Annex 1: A note about grid references

Grid references indicate the squares in which records have been made, and in the DDb are provided at several levels of precision. All begin with two letters (for Kincardineshire these are mostly NO (but in the north are NJ) to identify the appropriate square with 100 km sides in the OS national grid. These are followed by either 1, 2, 3, 4 or 5 digits to locate the easterly position of the square pertaining to the record, after which come the same number of digits to locate the northerly position of the square. The number of digits implicitly indicates the dimension of the square, with 1, 2, 3, 4 and 5 digits indicating squares with sides 10 km, 1 km, 100 m, 10 m and 1 m respectively. The numerical values of each digit indicate, from the left, the location of the relevant 10 km square within the 100 km square, the 1 km square within the 10 km square, successively down to the 1 m square within the 10 m square (a value of 0 indicating most westerly / southerly, and 9 most easterly / northerly). A more expansive explanation can be found [here](#). The 10-figure grid references obtainable from a hand-held GPS or mobile phone app are not repeatable to 1 m resolution, so in the interests of economy at most 8-figure precision is quoted in the Register. However, there are advantages in noting 10-figure grid references in the field as they provide the most precise indication of where to start a future search from.

For squares with sides 2 km (tetrads) a different system has to be used to identify which of the 5x5=25 tetrads within a hectad any record refers to. This is done by attaching a single letter to the hectad grid reference (e.g. NO79? where ? can be any of the letters A to Z with the exception of O).

Where polygon centroids have been used to locate records rather than a grid reference for the plants themselves, the grid reference is followed by Ø.

**Figure A1.1** Demonstration of the arrangement of tetrads (**bold**) within the hectad NO79, including also the 6 figure grid reference of the 100 m square in the south-west (bottom left with north pointing vertically) corner of each tetrad (*italics*).

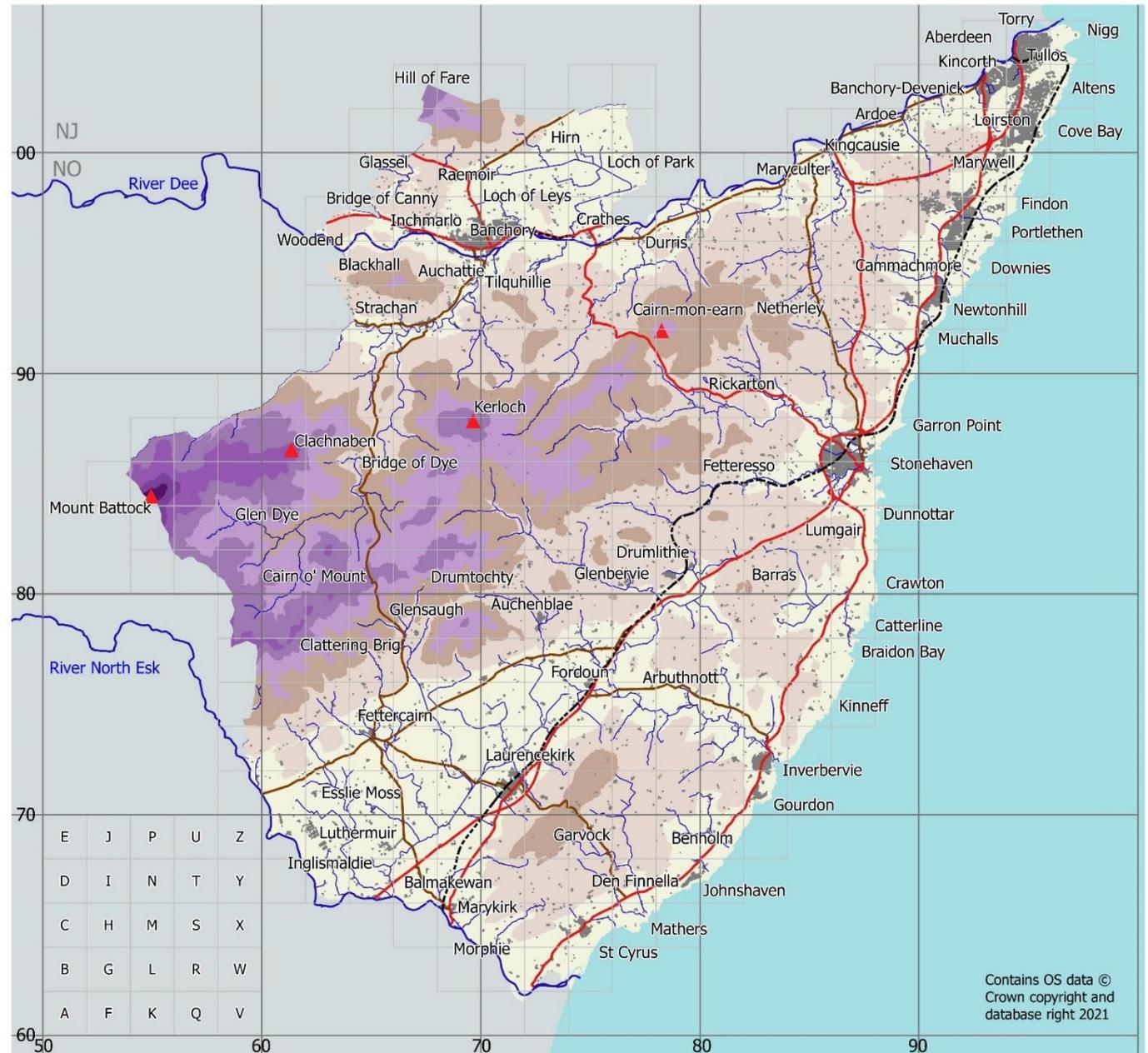
Northings (in km) of south-west corner within the NO 100 km square	98	<b>NO79E</b> <i>NO700980</i>	<b>NO79J</b> <i>NO720980</i>	<b>NO79P</b> <i>NO740980</i>	<b>NO79U</b> <i>NO760980</i>	<b>NO79Z</b> <i>NO780980</i>
	96	<b>NO79D</b> <i>NO700960</i>	<b>NO79I</b> <i>NO720960</i>	<b>NO79N</b> <i>NO740960</i>	<b>NO79T</b> <i>NO760960</i>	<b>NO79Y</b> <i>NO780960</i>
	94	<b>NO79C</b> <i>NO700940</i>	<b>NO79H</b> <i>NO720940</i>	<b>NO79M</b> <i>NO740940</i>	<b>NO79S</b> <i>NO760940</i>	<b>NO79X</b> <i>NO780940</i>
	92	<b>NO79B</b> <i>NO700920</i>	<b>NO79G</b> <i>NO720920</i>	<b>NO79L</b> <i>NO740920</i>	<b>NO79R</b> <i>NO760920</i>	<b>NO79W</b> <i>NO780920</i>
	90	<b>NO79A</b> <i>NO700900</i>	<b>NO79F</b> <i>NO720900</i>	<b>NO79K</b> <i>NO740900</i>	<b>NO79Q</b> <i>NO760900</i>	<b>NO79V</b> <i>NO780900</i>
	70	72	74	76	78	
	Eastings (in km) of south-west corner within the NO 100 km square					

Figure 1. Map of Kincardineshire. This Bespoke map has been constructed to show:

- place names used at the start of each lead record;
- main roads and current railway;
- principal rivers and streams;
- settlements;
- altitude in 100 m bands;
- principal summits;
- hectad grid and relative position of tetrad within hectads.

Key to map

- A Road
- B Road
- - - - Railway
- River
- Building
- Altitude (m)
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- Hectad grid
- Tetrad grid



Map produced by  
Andy Amphlett

**Table 1.** Listing of all taxa included in the Register arranged alphabetically by Latin name indicating reference code (Ref). Also given are origin in Kincardineshire (Nat for native, Arch for archaeophyte), local status and year of latest record (Last).

Ref	Taxon name	Vernacular	Origin	Status	Last
M057	<i>Agrimonia procera</i>	Fragrant Agrimony	Nat	LS	2021
E028	<i>Agrostemma githago</i>	Corncockle	Arch	LE	1919
M284	<i>Agrostis gigantea</i>	Black Bent	Arch	LS	2022
M058	<i>Alchemilla alpina</i>	Alpine Lady's-mantle	Nat	LR	2015
M059	<i>Alchemilla filicaulis</i>	Hairy Lady's-mantle	Nat	LR	2021
M220	<i>Alisma plantago-aquatica</i>	Water-plantain	Nat	LR	2012
M236	<i>Allium oleraceum</i>	Field Garlic	Nat	LR	2005
M237	<i>Allium scorodoprasum</i>	Sand Leek	Nat	LS	2023
M238	<i>Allium vineale</i>	Wild Onion	Nat	LS	2023
M286	<i>Ammophila arenaria</i>	Marram	Nat	LS	2022
M202	<i>Antennaria dioica</i>	Mountain Everlasting	Nat	LR	2019
E051	<i>Anthemis arvensis</i>	Corn Chamomile	Arch	LE	1919
M214	<i>Anthriscus caucalis</i>	Bur Chervil	Nat	LR	2006
M060	<i>Aphanes arvensis</i>	Parsley-piert	Nat	LR	2011
M104	<i>Arabidopsis petraea</i>	Northern Rock-cress	Nat	LR	2007
M111	<i>Arabis hirsuta</i>	Hairy Rock-cress	Nat	LR	2021
M149	<i>Arctostaphylos uva-ursi</i>	Bearberry	Nat	LS	2022
E026	<i>Arenaria leptoclados</i>	Slender Sandwort	Nat	LE	1969
M126	<i>Arenaria serpyllifolia</i>	Thyme-leaved Sandwort	Nat	LS	2019
E076	<i>Aristavena setacea</i>	Bog Hair-grass	Nat	LE	1919
E046	<i>Arnoseris minima</i>	Lamb's Succory	Arch	LE	1859
M206	<i>Artemisia maritima</i>	Sea Wormwood	Nat	LR	2021
M205	<i>Artemisia vulgaris</i>	Mugwort	Arch	LS	2023
M011	<i>Asplenium ceterach</i>	Rustyback	Nat?	LR	2020
M038	<i>Astragalus danicus</i>	Purple Milk-vetch	Nat	LO	2023
M039	<i>Astragalus glycyphyllos</i>	Wild Liquorice	Nat	LR	2021
M140	<i>Atriplex laciniata</i>	Frosted Orache	Nat	LS	2017
M139	<i>Atriplex littoralis</i>	Grass-leaved Orache	Nat	LS	2020
M282	<i>Avenula pubescens</i>	Downy Oat-grass	Nat	LS	2022
E052	<i>Bidens cernua</i>	Nodding Bur-marigold	Nat	LE	1859
M120	<i>Bistorta vivipara</i>	Alpine Bistort	Nat	LS	2021
M141	<i>Blitum bonus-henricus</i>	Good-King-Henry	Arch	NRR	1993
M250	<i>Blysmus rufus</i>	Saltmarsh Flat-sedge	Nat	LS	2022
M244	<i>Bolboschoenus maritimus</i>	Sea Club-rush	Nat	LR	2020
M005	<i>Botrychium lunaria</i>	Moonwort	Nat	LR	2022
M283	<i>Briza media</i>	Quaking-grass	Nat	LS	2023
M290	<i>Bromopsis ramosa</i>	Hairy-brome	Nat	LS	2020
M289	<i>Bromus hordeaceus subsp. ferronii</i>	Least Soft-brome	Nat	LR	2006
E077	<i>Bromus secalinus</i>	Rye Brome	Arch	LE	1919
E036	<i>Buglossoides arvensis</i>	Field Gromwell	Arch	LE	1859
M114	<i>Cakile maritima</i>	Sea Rocket	Nat	LS	2022
M285	<i>Calamagrostis epigejos</i>	Wood Small-reed	Nat	LS	2022
M170	<i>Callitriche hermaphroditica</i>	Autumnal Water-starwort	Nat	LS	2023
M171	<i>Callitriche platycarpa</i>	Various-leaved Water-starwort	Nat	NRR	1981
M193	<i>Campanula glomerata</i>	Clustered Bellflower	Nat	LR	2022

M196	<i>Carduus crispus</i>	Wetted Thistle	Nat	LS	2021
E044	<i>Carduus tenuiflorus</i>	Slender Thistle	Nat	LE	1876
E073	<i>Carex acutiformis</i>	Lesser Pond-sedge	Nat	LE	1904
E074	<i>Carex aquatilis</i>	Water Sedge	Nat	LE	1859
M254	<i>Carex arenaria</i>	Sand Sedge	Nat	LR	2021
M268	<i>Carex bigelowii</i>	Stiff Sedge	Nat	LR	2018
M251	<i>Carex diandra</i>	Lesser Tussock-sedge	Nat	LS	2022
M257	<i>Carex dioica</i>	Dioecious Sedge	Nat	LS	2022
M255	<i>Carex disticha</i>	Brown Sedge	Nat	LS	2021
M263	<i>Carex extensa</i>	Long-bracted Sedge	Nat	LR	2019
M264	<i>Carex hostiana x demissa</i>	A Hybrid Sedge	Nat	LR	2023
M258	<i>Carex lasiocarpa</i>	Slender Sedge	Nat	LR	2021
M265	<i>Carex lepidocarpa</i>	Long-stalked Yellow-sedge	Nat	LS	2022
M256	<i>Carex maritima</i>	Curved Sedge	Nat	NRR	1979
M253	<i>Carex muricata</i>	Prickly Sedge	Nat	LR	2022
M267	<i>Carex pallescens</i>	Pale Sedge	Nat	LS	2021
E072	<i>Carex paniculata</i>	Greater Tussock-sedge	Nat	LE	1847
M269	<i>Carex pauciflora</i>	Few-flowered Sedge	Nat	LS	2022
M259	<i>Carex riparia</i>	Greater Pond-sedge	Nat	LR	2019
M260	<i>Carex rostrata x vesicaria = C. x involuta</i>	A Hybrid Sedge	Nat x Nat	LR	2005
M252	<i>Carex spicata</i>	Spiked Sedge	Nat	LR	2023
M262	<i>Carex sylvatica</i>	Wood-sedge	Nat	LS	2023
M261	<i>Carex vesicaria</i>	Bladder-sedge	Nat	LR	2020
M266	<i>Carex viridula</i>	Small-fruited Yellow-sedge	Nat	LR	2019
M195	<i>Carlina vulgaris</i>	Carlina Thistle	Nat	LS	2022
E057	<i>Carum carvi</i>	Caraway	Arch	LE	1919
E075	<i>Catabrosa aquatica</i>	Whorl-grass	Nat	LE	1859
M197	<i>Centaurea cyanus</i>	Cornflower	Arch	LS	2021
M155	<i>Centaureum erythraea</i>	Common Centaury	Nat	LR	2009
E034	<i>Centaureum littorale</i>	Seaside Centaury	Nat	LE	1919
M129	<i>Cerastium arvense</i>	Field Mouse-ear	Nat	LS	2023
M130	<i>Cerastium semidecandrum</i>	Little Mouse-ear	Nat	LR	2021
M016	<i>Ceratophyllum demersum</i>	Rigid Hornwort	Nat	LR	2021
M166	<i>Chaenorhinum minus</i>	Small Toadflax	Arch	NRR	1999
M213	<i>Chaerophyllum temulum</i>	Rough Chervil	Nat	LR	2022
M293	<i>Chara virgata</i>	Delicate Stonewort	Nat	LR	2016
M020	<i>Chelidonium majus</i>	Greater Celandine	Arch	LR	2018
M198	<i>Cichorium intybus</i>	Chicory	Arch	LR	2007
M099	<i>Circaea lutetiana</i>	Enchanter's-nightshade	Nat	LS	2023
M177	<i>Clinopodium vulgare</i>	Wild Basil	Nat	LS	2023
M117	<i>Cochlearia officinalis subsp. scotica</i>	Scottish Scurvygrass	Nat	NRR	1999
M161	<i>Convolvulus arvensis</i>	Field Bindweed	Nat	LS	2022
M229	<i>Corallorhiza trifida</i>	Coralroot Orchid	Nat	LS	2023
M144	<i>Cornus suecica</i>	Dwarf Cornel	Nat	LR	2020
M115	<i>Crambe maritima</i>	Sea-kale	Nat	LR	2022
E049	<i>Crepis biennis</i>	Rough Hawk's-beard	Nat	LE	1913
E048	<i>Crepis mollis</i>	Northern Hawk's-beard	Nat	LE	1852
M154	<i>Cruciata laevipes</i>	Crosswort	Nat	LS	2020
M009	<i>Cryptogramma crispa</i>	Parsley Fern	Nat	LR	2023

M010	<i>Cystopteris dickieana</i>	Dickie's Bladder-fern	Nat	LR	2022
M234	<i>Dactylorhiza incarnata</i>	Early Marsh-orchid	Nat	LS	2014
M233	<i>Dactylorhiza maculata x purpurella = D. x formosa</i>	A Hybrid Marsh-orchid	Nat	LR	2022
E066	<i>Dactylorhiza viridis</i>	Frog Orchid	Nat	LE	1967
M215	<i>Daucus carota</i>	A Carrot	Nat	LR	2022
M110	<i>Descurainia sophia</i>	Flixweed	Arch	NRR	1995
M138	<i>Dianthus deltoides</i>	Maiden Pink	Nat	LS	2023
M001	<i>Diphasiastrum alpinum</i>	Alpine Clubmoss	Nat	LS	2022
E025	<i>Drosera anglica</i>	Great Sundew	Nat	LE	1919
M274	<i>Drymochloa sylvatica</i>	Wood Fescue	Nat	LR	2017
M013	<i>Dryopteris oreades</i>	Mountain Male-fern	Nat	LR	2023
M157	<i>Echium vulgare</i>	Viper's-bugloss	Nat	LS	2020
E018	<i>Elatine hexandra</i>	Six-stamened Waterwort	Nat	LE	1859
M247	<i>Eleocharis multicaulis</i>	Many-stalked Spike-rush	Nat	LS	2023
M248	<i>Eleocharis quinqueflora</i>	Few-flowered Spike-rush	Nat	LS	2022
M246	<i>Eleocharis uniglumis</i>	Slender Spike-rush	Nat	LR	2020
M249	<i>Eleogiton fluitans</i>	Floating Club-rush	Nat	LS	2023
M291	<i>Elymus junceiformis</i>	Sand Couch	Nat	LS	2020
E078	<i>Elymus repens x junceiformis = E. x laxus</i>	A Hybrid Couch	Nat	LE	1959
M097	<i>Epilobium alsinifolium</i>	Chickweed Willowherb	Nat	LR	2019
M098	<i>Epilobium anagallidifolium</i>	Alpine Willowherb	Nat	LR	2019
M096	<i>Epilobium montanum x parviflorum = E. x limosum</i>	A Hybrid Willowherb	Nat	LR	2020
M095	<i>Epilobium parviflorum</i>	Hoary Willowherb	Nat	LS	2021
E019	<i>Epilobium roseum</i>	Pale Willowherb	Nat	LE	1957
M007	<i>Equisetum arvense x fluviatile = E. x litorale</i>	A Hybrid Horsetail	Nat x Nat	LR	2021
M006	<i>Equisetum hyemale</i>	Rough Horsetail	Nat	LS	2023
E004	<i>Equisetum hyemale x variegatum = E. x trachyodon</i>	A Hybrid Horsetail	Nat	LE	1877
M008	<i>Equisetum pratense</i>	Shady Horsetail	Nat	LR	2021
E005	<i>Equisetum variegatum</i>	Variiegated Horsetail	Nat	LE	1859
M092	<i>Erodium cicutarium s.s.</i>	Common Stork's-bill	Nat	LS	2021
M043	<i>Ervilia sylvatica</i>	Wood Vetch	Nat	LS	2023
E054	<i>Eryngium maritimum</i>	Sea-holly	Nat	LE	1845
M102	<i>Erysimum cheiranthoides</i>	Treacle mustard	Arch	LR	2021
M103	<i>Erysimum cheiri</i>	Wallflower	Arch	LS	2023
M088	<i>Euphorbia helioscopia</i>	Sun Spurge	Arch	LO	2023
M184	<i>Euphrasia arctica</i>	Arctic Eyebright	Nat	LO	2023
M186	<i>Euphrasia arctica x confusa</i>	A Hybrid Eyebright	Nat	LR	2008
M185	<i>Euphrasia arctica x tetraquetra = E. x pratiuscula</i>	A Hybrid Eyebright	Nat x Nat	LR	2007
M189	<i>Euphrasia confusa</i>	Confused Eyebright	Nat	NRR	1988
M190	<i>Euphrasia micrantha</i>	Slender Eyebright	Nat	LO	2022
M191	<i>Euphrasia micrantha x scottica = E. x electa</i>	A Hybrid Eyebright	Nat x Nat	LR	2022
M188	<i>Euphrasia nemorosa</i>	Common Eyebright	Nat	LR	2004
M192	<i>Euphrasia scottica</i>	Scottish Eyebright	Nat	NRR	1988
M187	<i>Euphrasia tetraquetra</i>	Western Eyebright	Nat	LR	2021
M123	<i>Fallopia convolvulus</i>	Black-bindweed	Arch	LO	2023

M275	<i>Festuca arenaria</i>	Rush-leaved Fescue	Nat	LR	2023
M276	<i>Festuca vivipara</i>	Viviparous Sheep's-fescue	Nat	LS	2022
M201	<i>Filago germanica</i>	Common Cudweed	Nat	LR	2021
E015	<i>Filipendula vulgaris</i>	Dropwort	Nat	LE	1859
M022	<i>Fumaria bastardii</i>	Tall Ramping-fumitory	Nat	LR	2015
M021	<i>Fumaria capreolata</i>	White Ramping-fumitory	Nat	LR	2005
M024	<i>Fumaria densiflora</i>	Dense-flowered Fumitory	Arch	NRR	1998
M023	<i>Fumaria reuteri</i>	Martin's Ramping-fumitory	Nat	LR	2016
M175	<i>Galeopsis speciosa</i>	Large-flowered Hemp-nettle	Arch	LO	2023
M156	<i>Gentianella campestris</i>	Field Gentian	Nat	LR	2023
M091	<i>Geranium lucidum</i>	Shining Crane's-bill	Nat	LS	2023
M090	<i>Geranium pusillum</i>	Small-flowered Crane's-bill	Nat	LS	2023
M056	<i>Geum rivale x urbanum = G. x intermedium</i>	Hybrid Avens	Nat x Nat	LS	2020
E009	<i>Glaucium flavum</i>	Yellow Horned-poppy	Nat	LE	1859
M207	<i>Glebionis segetum</i>	Corn Marigold	Arch	LO	2020
M270	<i>Glyceria fluitans x notata = G. x pedicellata</i>	Hybrid Sweet-grass	Nat	NRR	1997
M271	<i>Glyceria notata</i>	Plicate Sweet-grass	Nat	LR	2023
M232	<i>Gymnadenia conopsea s.l.</i>	A Fragrant-orchid	Nat	LS	2022
E064	<i>Hammarbya paludosa</i>	Bog Orchid	Nat	LE	1960
M212	<i>Helosciadium inundatum</i>	Lesser Marshwort	Nat	LS	2020
M211	<i>Helosciadium nodiflorum</i>	Fool's-water-cress	Nat	NRR	1996
C061	<i>Hieracium cravoniense</i>	Craven Hawkweed	Nat	LR	2022
C062	<i>Hieracium deganwyense</i>	A Hawkweed	Nat	LR	2012
C063	<i>Hieracium duriceps</i>	Hard-headed Hawkweed	Nat	LR	2000
C064	<i>Hieracium latobrigorum</i>	Yellow-styled Hawkweed	Nat	LS	2022
C065	<i>Hieracium oxybeles</i>	Pointed-leaved Hawkweed	Nat	LR	2016
C066	<i>Hieracium pictorum</i>	Picts Hawkweed	Nat	NRR	1993
C067	<i>Hieracium prenanthoides</i>	Rough-leaved Hawkweed	Nat	LR	2021
C068	<i>Hieracium reayense</i>	Reay Hawkweed	Nat	NRR	1993
C069	<i>Hieracium reticulatiforme</i>	Reticulate-leaved Hawkweed	Nat	LR	2007
C070	<i>Hieracium rubicundiforme</i>	Rubicund Hawkweed	Nat	NRR	1993
C071	<i>Hieracium salticola</i>	Bluish-leaved Hawkweed	Nat	NRR	1980
C072	<i>Hieracium saxorum</i>	Rock Hawkweed	Nat	LR	2017
C073	<i>Hieracium strictiforme</i>	Strict Hawkweed	Arch	LR	2010
C074	<i>Hieracium subcrocatum</i>	Dark-styled Hawkweed	Nat	LE	1952
C075	<i>Hieracium subumbellatiforme</i>	Slender Hawkweed	Nat	NRR	1993
M169	<i>Hippuris vulgaris</i>	Mare's-tail	Nat	LS	2023
M127	<i>Honckenya peploides</i>	Sea Sandwort	Nat	LS	2023
E079	<i>Hordeum murinum</i>	Wall Barley	Arch	LE	1859
M162	<i>Hyoscyamus niger</i>	Henbane	Arch	LR	2022
M069	<i>Hypericum maculatum x perforatum = H. x desetangsii</i>	Des Etang's St John's-wort	Nat x Nat	LS	2010
E047	<i>Hypochaeris glabra</i>	Smooth Cat's-ear	Nat	LE	1859
M218	<i>Imperatoria ostruthium</i>	Masterwort	Arch	LR	2020
E002	<i>Isoetes echinospora</i>	Spring Quillwort	Nat	LE	1868
M003	<i>Isoetes lacustris</i>	Quillwort	Nat	NRR	1988
E043	<i>Jasione montana</i>	Sheep's-bit	Nat	LE	1930
E067	<i>Juncus balticus</i>	Baltic Rush	Nat	LE	1876
E068	<i>Juncus filiformis</i>	Thread Rush	Nat	LE	1987

M243	<i>Juncus inflexus</i>	Hard Rush	Nat	LS	2023
M242	<i>Juncus maritimus</i>	Sea Rush	Nat	LR	2021
M015	<i>Juniperus communis</i>	Juniper	Nat	LO	2022
E013	<i>Lathyrus japonicus</i>	Sea Pea	Nat	LE	2014
E014	<i>Lathyrus sylvestris</i>	Narrow-leaved Everlasting-pea	Nat	LE	1884
M219	<i>Lemna trisulca</i>	Ivy-leaved Duckweed	Nat	LR	2021
M199	<i>Leontodon saxatilis</i>	Lesser Hawkbit	Nat	LR	2021
M109	<i>Lepidium campestre</i>	Field Pepperwort	Arch	LR	2023
E021	<i>Lepidium coronopus</i>	Swine-cress	Arch	LE	1839
M292	<i>Leymus arenarius</i>	Lyme-grass	Nat	LS	2021
E039	<i>Limosella aquatica</i>	Mudwort	Nat	LE	1876
M167	<i>Linaria repens</i>	Pale Toadflax	Arch	LR	2020
M208	<i>Linnaea borealis</i>	Twinflower	Nat	LR	2023
M089	<i>Linum radiola</i>	Allseed	Nat	LR	2015
E035	<i>Lithospermum officinale</i>	Common Gromwell	Nat	LE	1876
M168	<i>Littorella uniflora</i>	Shoreweed	Nat	LS	2019
M194	<i>Lobelia dortmanna</i>	Water Lobelia	Nat	NRR	1983
E001	<i>Lycopodiella inundata</i>	Marsh Clubmoss	Nat	LE	1884
M179	<i>Lycopus europaeus</i>	Gypsywort	Nat	LR	2018
M148	<i>Lysimachia arvensis</i>	Scarlet Pimpernel	Nat	LS	2021
M147	<i>Lysimachia maritima</i>	Sea-milkwort	Nat	LS	2022
E031	<i>Lysimachia tenella</i>	Bog Pimpernel	Nat	LE	1859
M146	<i>Lysimachia vulgaris</i>	Yellow Loosestrife	Nat	LR	2019
M094	<i>Lythrum portula</i>	Water-purslane	Nat	LS	2022
M093	<i>Lythrum salicaria</i>	Purple-loosestrife	Nat	LS	2020
E020	<i>Malva neglecta</i>	Dwarf Mallow	Arch	LE	1859
M100	<i>Malva sylvestris</i>	Common Mallow	Arch	LS	2019
M183	<i>Melampyrum pratense</i>	Common Cow-wheat	Nat	LS	2022
E042	<i>Melampyrum sylvaticum</i>	Small Cow-wheat	Nat	LE	1871
M272	<i>Melica nutans</i>	Mountain Melick	Nat	LR	2010
M273	<i>Melica uniflora</i>	Wood Melick	Nat	LR	2018
M181	<i>Mentha aquatica x spicata = M. x piperita</i>	Peppermint	Nat x Arch	LS	2019
M180	<i>Mentha arvensis</i>	Corn Mint	Nat	LS	2016
M182	<i>Mentha spicata</i>	Spear Mint	Arch	LS	2017
E037	<i>Mertensia maritima</i>	Oysterplant	Nat	LE	2013
M217	<i>Meum athamanticum</i>	Spignel	Nat	LS	2022
M035	<i>Micranthes stellaris</i>	Starry Saxifrage	Nat	LR	2020
M287	<i>Milium effusum</i>	Wood Millet	Nat	LR	2022
E033	<i>Moneses uniflora</i>	One-flowered Wintergreen	Nat	LE	1839
M200	<i>Mycelis muralis</i>	Wall Lettuce	Nat	LS	2022
M158	<i>Myosotis laxa x scorpioides = M. x suzae</i>	A Hybrid Forget-me-not	Nat x Nat	LR	2002
M160	<i>Myosotis ramosissima</i>	Early Forget-me-not	Nat	LS	2023
M159	<i>Myosotis sylvatica</i>	Wood Forget-me-not	Nat	LS	2021
M037	<i>Myriophyllum spicatum</i>	Spiked Water-milfoil	Nat	LS	2019
M107	<i>Nasturtium officinale s.s.</i>	Water-cress	Nat	LS	2021
M108	<i>Nasturtium officinale x microphyllum = N. x sterile</i>	Hybrid Water-cress	Nat	LS	2023
M228	<i>Neottia ovata</i>	Common Twayblade	Nat	LR	2020
M294	<i>Nitella flexilis s.l.</i>	A Smooth Stonewort	Nat	LR	2020

M295	<i>Nitella translucens</i>	Translucent Stonewort	Nat	LR	2013
E008	<i>Nymphaea alba</i>	White Water-lily	Nat	LE	1957
E050	<i>Omalotheca supina</i>	Dwarf Cudweed	Nat	LE	1859
M203	<i>Omalotheca sylvatica</i>	Heath Cudweed	Nat	LO	2022
M044	<i>Ononis repens</i>	Common Restharrow	Nat	LS	2022
E045	<i>Onopordum acanthium</i>	Cotton Thistle	Arch	LE	1960
M004	<i>Ophioglossum azoricum</i>	Small Adder's-tongue	Nat	LR	2023
E003	<i>Ophioglossum vulgatum</i>	Adder's-tongue	Nat	LE	1859
M235	<i>Orchis mascula</i>	Early-purple Orchid	Nat	LS	2023
M178	<i>Origanum vulgare</i>	Wild Marjoram	Nat	LS	2021
M040	<i>Ornithopus perpusillus</i>	Bird's-foot	Nat	LR	2021
E032	<i>Orthilia secunda</i>	Serrated Wintergreen	Nat	LE	1963
E006	<i>Osmunda regalis</i>	Royal Fern	Nat	LE	1919
E024	<i>Oxyria digyna</i>	Mountain Sorrel	Nat	LE	1919
M018	<i>Papaver rhoeas</i>	Common Poppy	Arch	LS	2020
M017	<i>Papaver somniferum</i>	Opium Poppy	Arch	LS	2019
M067	<i>Parietaria judaica</i>	Pellitory-of-the-Wall	Nat?	NRR	1999
M227	<i>Paris quadrifolia</i>	Herb-Paris	Nat	LR	2021
M068	<i>Parnassia palustris</i>	Grass-of-Parnassus	Nat	LS	2023
M119	<i>Persicaria lapathifolia</i>	Pale Persicaria	Nat	LS	2020
E023	<i>Persicaria minor</i>	Small Water-pepper	Nat	LE	1919
M288	<i>Phleum arenarium</i>	Sand Cat's-tail	Nat	LR	2023
E007	<i>Pilularia globulifera</i>	Pillwort	Nat	LE	1903
E038	<i>Plantago media</i>	Hoary Plantain	Nat	LE	1948
M231	<i>Platanthera bifolia</i>	Lesser Butterfly-orchid	Nat	LS	2022
M230	<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	Nat	LR	2021
M049	<i>Polygala vulgaris</i>	Common Milkwort	Nat	LS	2023
M122	<i>Polygonum boreale</i>	Northern Knotgrass	Nat	LR	2022
M121	<i>Polygonum oxyspermum</i>	Ray's Knotgrass	Nat	LR	2023
M014	<i>Polypodium interjectum</i>	Intermediate Polypody	Nat	LR	2020
M012	<i>Polystichum setiferum</i>	Soft Shield-fern	Nat	LR	2021
M226	<i>Potamogeton crispus</i>	Curled Pondweed	Nat	LS	2022
E060	<i>Potamogeton gramineus</i>	Various-leaved Pondweed	Nat	LE	1880
E058	<i>Potamogeton gramineus x natans</i> = <i>P. x sparganiiifolius</i>	Ribbon-leaved Pondweed	Nat	LE	1873
E061	<i>Potamogeton gramineus x</i> <i>perfoliatus = P. x nitens</i>	Bright-leaved Pondweed	Nat	LE	1874
E059	<i>Potamogeton lucens</i>	Shining Pondweed	Nat	LE	1859
M224	<i>Potamogeton obtusifolius</i>	Blunt-leaved Pondweed	Nat	LS	2011
M223	<i>Potamogeton perfoliatus</i>	Perfoliate Pondweed	Nat	LR	2022
M225	<i>Potamogeton pusillus</i>	Lesser Pondweed	Nat	LR	2001
M055	<i>Potentilla anglica</i>	Trailing Tormentil	Nat	LR	2021
M054	<i>Potentilla anglica x erecta = P. x</i> <i>suberecta</i>	A Hybrid Tormentil	Nat x Nat	LR	2021
M052	<i>Potentilla argentea</i>	Hoary Cinquefoil	Nat	LR	2019
M053	<i>Potentilla crantzii</i>	Alpine Cinquefoil	Nat	LR	2023
E016	<i>Potentilla reptans</i>	Creeping Cinquefoil	Nat	LE	1844
M145	<i>Primula veris x vulgaris = P. x</i> <i>polyantha</i>	False Oxlip	Nat	LS	2021
M050	<i>Prunus domestica</i>	Wild Plum	Arch	LS	2022
E065	<i>Pseudorchis albida</i>	Small-white Orchid	Nat	LE	1979

M280	<i>Puccinellia distans</i> subsp. <i>borealis</i>	Reflexed Saltmarsh-grass	Nat	LS	2021
M279	<i>Puccinellia maritima</i>	Common Saltmarsh-grass	Nat	LS	2020
M152	<i>Pyrola media</i>	Intermediate Wintergreen	Nat	LS	2022
M151	<i>Pyrola minor</i>	Common Wintergreen	Nat	LS	2023
M029	<i>Ranunculus aquatilis</i> s.s.	Common Water-crowfoot	Nat	LS	2019
M026	<i>Ranunculus auricomus</i>	Goldilocks Buttercup	Nat	LS	2023
E010	<i>Ranunculus omiophyllus</i>	Round-leaved Crowfoot	Nat	LE	1958
M030	<i>Ranunculus peltatus</i>	Pond Water-crowfoot	Nat	LR	2019
M031	<i>Ranunculus penicillatus</i>	Stream Water-crowfoot	Nat	LR	2021
M027	<i>Ranunculus sceleratus</i>	Celery-leaved Buttercup	Nat	LR	2019
M028	<i>Ranunculus trichophyllus</i>	Thread-leaved Water-crowfoot	Nat	NRR	1981
M116	<i>Raphanus raphanistrum</i>	Radish	Arch	LS	2021
M101	<i>Reseda luteola</i>	Weld	Arch	LS	2018
E071	<i>Rhynchospora alba</i>	White Beak-sedge	Nat	LE	1948
M019	<i>Roemeria argemone</i>	Prickly Poppy	Arch	LR	2016
M105	<i>Rorippa palustris</i>	Marsh Yellow-cress	Nat	LR	2023
M106	<i>Rorippa sylvestris</i>	Creeping Yellow-cress	Nat	LS	2021
M061	<i>Rosa caesia</i> s.l. x <i>canina</i>	A Hybrid Rose	Nat x Nat	LS	2023
M062	<i>Rosa caesia</i> s.l. x <i>sherardii</i>	A Hybrid Rose	Nat x Nat	LR	2021
M063	<i>Rosa mollis</i> x <i>rubiginosa</i> = <i>R. x molliformis</i> (f x m)	A Hybrid Rose	Nat x Nat	NRR	1978
E017	<i>Rosa mollis</i> x <i>spinosissima</i> = <i>R. x sabinii</i>	A Hybrid Rose	Nat	LE	1901
M064	<i>Rosa rubiginosa</i>	Sweet-briar	Nat	LS	2023
M065	<i>Rosa rubiginosa</i> x <i>spinosissima</i> = <i>R. x biturigensis</i>	A Hybrid Rose	Nat x Nat	NRR	1987
C001	<i>Rubus anglocandicans</i>	A Bramble	Nat	LR	2020
C002	<i>Rubus dasyphyllus</i>	A Bramble	Nat	LS	2022
C003	<i>Rubus errabundus</i>	A Bramble	Nat	LR	2022
C004	<i>Rubus fissus</i>	Cleft Bramble	Nat	LR	2021
C005	<i>Rubus furvicolor</i>	A Bramble	Nat	LR	2013
C006	<i>Rubus infestus</i>	A Bramble	Nat	NRR	1988
C007	<i>Rubus lindleianus</i>	A Bramble	Arch	LR	2020
C008	<i>Rubus longiflorus</i>	A Bramble	Nat	LR	2020
C009	<i>Rubus nemoralis</i>	A Bramble	Nat	LR	2020
C010	<i>Rubus pictorum</i>	A Bramble	Nat	LS	2018
C011	<i>Rubus plicatus</i>	Plaited-leaved Bramble	Nat	LS	2022
C012	<i>Rubus polyanthemus</i>	A Bramble	Nat	LS	2022
M051	<i>Rubus saxatilis</i>	Stone Bramble	Nat	LR	2023
C013	<i>Rubus septentrionalis</i>	Stellately-hairy Bramble	Nat	LR	2022
C014	<i>Rubus surrejanus</i>	A Bramble	Nat	LR	2021
C015	<i>Rubus ulmifolius</i>	Elm-leaf Blackberry	Nat	LR	2023
C016	<i>Rubus vestitus</i>	A Bramble	Nat	LR	2021
M124	<i>Rumex alpinus</i>	Monk's-rhubarb	Arch	LS	2023
M125	<i>Rumex crispus</i> x <i>obtusifolius</i> = <i>R. x pratensis</i>	A Hybrid Dock	Nat	LR	2015
E063	<i>Ruppia maritima</i>	Beaked Tasselweed	Nat	LE	1876
E027	<i>Sabulina verna</i>	Spring Sandwort	Nat	LE	1852
M132	<i>Sagina maritima</i>	Sea Pearlwort	Nat	LS	2021
M131	<i>Sagina nodosa</i>	Knotted Pearlwort	Nat	LR	2022
E030	<i>Salicornia</i>	Glasswort	Nat	LE	1919

M084	<i>Salix aurita x repens = S. x ambigua</i>	A Hybrid Willow	Nat	LR	2023
M079	<i>Salix aurita x viminalis = S. x fruticosa</i>	Shrubby Osier	Nat x Arch	LR	2020
M080	<i>Salix caprea x cinerea = S. x reichardtii</i>	A Hybrid Willow	Nat	LR	2021
M077	<i>Salix caprea x cinerea x viminalis = S. x calodendron</i>	Holme Willow	Nat x Arch	LR	2022
M081	<i>Salix caprea x myrsinifolia = S. x latifolia</i>	A Hybrid Willow	Nat	LR	2022
M083	<i>Salix cinerea x phylicifolia = S. x laurina</i>	Laurel-leaved Willow	Nat	LR	2023
M082	<i>Salix cinerea x repens = S. x subsericea</i>	A Hybrid Willow	Nat	LR	2015
M085	<i>Salix myrsinifolia</i>	Dark-leaved Willow	Nat	LS	2021
M086	<i>Salix myrsinifolia x phylicifolia = S. x tetrapla</i>	A Hybrid Willow	Nat	LR	2012
M074	<i>Salix pentandra</i>	Bay Willow	Nat	LS	2023
M087	<i>Salix phylicifolia</i>	Tea-leaved Willow	Nat	LS	2023
M076	<i>Salix purpurea x viminalis = S. x rubra</i>	Green-leaved Willow	Nat x Arch	NRR	1978
M075	<i>Salix triandra</i>	Almond Willow	Arch	LR	2021
M078	<i>Salix viminalis x cinerea = S. x holosericea</i>	Silky-leaved Willow	Nat x Arch	LR	2012
M143	<i>Salsola kali</i>	Prickly Saltwort	Nat	LR	2017
E053	<i>Sambucus ebulus</i>	Dwarf Elder	Arch	LE	1960
M210	<i>Sanicula europaea</i>	Sanicle	Nat	LS	2023
E029	<i>Saponaria officinalis</i>	Soapwort	Arch	LE	1919
M033	<i>Saxifraga aizoides</i>	Yellow Saxifrage	Nat	LR	2023
E011	<i>Saxifraga hirculus</i>	Marsh Saxifrage	Nat	LE	1842
M034	<i>Saxifraga hypnoides</i>	Mossy Saxifrage	Nat	LR	2000
E056	<i>Scandix pecten-veneris</i>	Shepherd's-needle	Arch	LE	1919
E069	<i>Schoenoplectus lacustris</i>	Common Club-rush	Nat	LE	1871
E070	<i>Schoenus nigricans</i>	Black Bog-rush	Nat	LE	1859
M245	<i>Scirpus sylvaticus</i>	Wood Club-rush	Nat	LR	2022
M133	<i>Scleranthus annuus</i>	Annual Knawel	Nat	LR	2022
M172	<i>Scrophularia auriculata</i>	Water Figwort	Nat	LR	2011
M176	<i>Scutellaria galericulata</i>	Skullcap	Nat	LS	2010
M036	<i>Sedum album</i>	White Stonecrop	Arch	LS	2020
E012	<i>Sedum villosum</i>	Hairy Stonecrop	Nat	LE	1969
M002	<i>Selaginella selaginoides</i>	Lesser Clubmoss	Nat	LS	2022
M153	<i>Sherardia arvensis</i>	Field Madder	Nat	LS	2021
M136	<i>Silene nutans</i>	Nottingham Catchfly	Nat	LR	2022
M137	<i>Silene vulgaris</i>	Bladder Champion	Nat	LR	2021
M113	<i>Sinapis alba</i>	White Mustard	Arch	LR	2015
M112	<i>Sinapis arvensis</i>	Charlock	Arch	LO	2023
E055	<i>Smyrniolum olusatrum</i>	Alexanders	Arch	LE	1960
M240	<i>Sparganium angustifolium</i>	Floating Bur-reed	Nat	LR	2001
M239	<i>Sparganium emersum</i>	Unbranched Bur-reed	Nat	LR	2017
M241	<i>Sparganium natans</i>	Least Bur-reed	Nat	LS	2020
M134	<i>Spergula arvensis</i>	Corn Spurrey	Arch	LO	2023
M135	<i>Spergularia media</i>	Greater Sea-spurrey	Nat	LS	2023
M174	<i>Stachys arvensis</i>	Field Woundwort	Arch	LS	2022

M128	<i>Stellaria nemorum</i>	Wood Stitchwort	Nat	LS	2023
E062	<i>Stuckenia pectinata</i>	Fennel Pondweed	Nat	LE	1849
M142	<i>Suaeda maritima</i>	Annual Sea-blite	Nat	LR	2020
E022	<i>Subularia aquatica</i>	Awlwort	Nat	LE	1874
C017	<i>Taraxacum argutum</i>	Sharp-toothed Dandelion	Nat	NRR(DD)	1997
C018	<i>Taraxacum boekmanii</i>	Bökman's Dandelion	Nat	NRR(DD)	1997
C019	<i>Taraxacum brachyglossum</i>	Purple-bracted Dandelion	Nat	NRR(DD)	1996
C020	<i>Taraxacum bracteatum</i>	Dark-green Dandelion	Nat	NRR(DD)	1998
C021	<i>Taraxacum cyanolepis</i>	Bluish-bracted Dandelion	Nat	LR(DD)	2017
C022	<i>Taraxacum dilatatum</i>	Grassland Dandelion	Nat	NRR(DD)	1996
C023	<i>Taraxacum duplidentifrons</i>	Double-toothed Dandelion	Nat	NRR(DD)	1997
C024	<i>Taraxacum ekmanii</i>	Ekman's Dandelion	Nat	NRR(DD)	1996
C025	<i>Taraxacum euryphyllum</i>	Wide-stalked Dandelion	Nat	NRR(DD)	1977
C026	<i>Taraxacum excellens</i>	Purple-blotched Dandelion	Nat	NRR(DD)	1995
C027	<i>Taraxacum expallidiforme</i>	Broad-stalked Dandelion	Nat	NRR(DD)	1996
C028	<i>Taraxacum faeroense</i>	Faeroes Dandelion	Nat	LR(DD)	2021
C029	<i>Taraxacum fulviforme</i>	Green-bracted Dandelion	Nat	NRR(DD)	1977
C030	<i>Taraxacum fulvum</i>	Cinnamon-fruited Dandelion	Nat	NRR(DD)	1977
C031	<i>Taraxacum gelertii</i>	Gelert's Dandelion	Nat	NRR(DD)	1997
C032	<i>Taraxacum hamatiforme</i>	Asymmetrical Hook-lobed Dandelion	Nat	NRR(DD)	1996
C033	<i>Taraxacum hamatulum</i>	Slender Hook-lobed Dandelion	Nat	LR(DD)	2021
C034	<i>Taraxacum hamatum</i>	Hook-lobed Dandelion	Nat	NRR(DD)	1997
C035	<i>Taraxacum insigne</i>	Remarkable Dandelion	Nat	NRR(DD)	1995
C036	<i>Taraxacum lacistophyllum</i>	Cut-leaved Dandelion	Nat	NRR(DD)	1996
C037	<i>Taraxacum landmarkii</i>	Landmark Dandelion	Nat	NRR(DD)	1976
C038	<i>Taraxacum laticordatum</i>	Decumbent Dandelion	Nat	NRR(DD)	1994
C039	<i>Taraxacum luteum</i>	Pure Yellow Dandelion	Nat	LR(DD)	2022
C040	<i>Taraxacum maculosum</i>	Spotted Dandelion	Nat	NRR(DD)	1995
C041	<i>Taraxacum naevosiforme</i>	Wetland Dandelion	Nat	NRR(DD)	1977
C042	<i>Taraxacum naevosum</i>	Squat Dandelion	Nat	NRR(DD)	1977
C043	<i>Taraxacum nordstedtii</i>	Nordstedt's Dandelion	Nat	NRR(DD)	1995
C044	<i>Taraxacum oblongatum</i>	Oblong-leaved Dandelion	Nat	NRR(DD)	1996
C045	<i>Taraxacum pannulatifforme</i>	Tar-blotched Dandelion	Nat	NRR(DD)	1996
C046	<i>Taraxacum platyglossum</i>	Tongue-leaved Dandelion	Nat	LR(DD)	2007
C047	<i>Taraxacum polyodon</i>	Common Dandelion	Nat	NRR(DD)	1996
C048	<i>Taraxacum proximiforme</i>	Straw-fruited Dandelion	Nat	NRR(DD)	1993
C049	<i>Taraxacum proximum</i>	Umber-fruited Dandelion	Nat	NRR(DD)	1996
C050	<i>Taraxacum pseudohamatum</i>	False Hook-lobed Dandelion	Nat	NRR(DD)	1994
C051	<i>Taraxacum richardsianum</i>	Richards' Dandelion	Nat	NRR(DD)	1997
C052	<i>Taraxacum sahlinianum</i>	Sahlin's Dandelion	Nat	NRR(DD)	1996
C053	<i>Taraxacum sellandii</i>	Selland's Dandelion	Nat	NRR(DD)	1995
C054	<i>Taraxacum spiculatum</i>	Sagittate-lobed Dandelion	Nat	NRR(DD)	1977
C055	<i>Taraxacum stenoglossum</i>	A Dandelion	Nat	NRR(DD)	1977
C056	<i>Taraxacum subbracteatum</i>	Dark-bracted Dandelion	Nat	NRR(DD)	1995
C057	<i>Taraxacum subcyanolepis</i>	Reddish-bracted Dandelion	Nat	NRR(DD)	1977
C058	<i>Taraxacum subhamatum</i>	Large Hook-lobed Dandelion	Nat	NRR(DD)	1996
C059	<i>Taraxacum subnaevosum</i>	Pale-bracted Dandelion	Nat	NRR(DD)	1995
C060	<i>Taraxacum unguilobum</i>	Claw-lobed Dandelion	Nat	NRR(DD)	1997
M118	<i>Teesdalia nudicaulis</i>	Shepherd's Cress	Nat	LS	2023
M032	<i>Thalictrum minus</i>	Lesser Meadow-rue	Nat	LR	2017

M048	<i>Trifolium arvense</i>	Hare's-foot Clover	Nat	LS	2022
M045	<i>Trifolium micranthum</i>	Slender Trefoil	Nat	LR	2016
M047	<i>Trifolium scabrum</i>	Rough Clover	Nat	LR	2022
M046	<i>Trifolium striatum</i>	Knotted Clover	Nat	LR	2021
M221	<i>Triglochin maritima</i>	Sea Arrowgrass	Nat	LS	2021
M204	<i>Tripolium pannonicum</i>	Sea Aster	Nat	LR	2020
M281	<i>Trisetum flavescens</i>	Yellow Oat-grass	Nat	LS	2023
M216	<i>Trocdaris verticillata</i>	Whorled Caraway	Nat	LR	2002
M025	<i>Trollius europaeus</i>	Globeflower	Nat	LS	2023
M066	<i>Urtica urens</i>	Small Nettle	Arch	LS	2022
E041	<i>Utricularia intermedia</i> agg.	A Bladderwort	Nat	LE	1957
M173	<i>Utricularia minor</i>	Lesser Bladderwort	Nat	LS	2023
E040	<i>Utricularia vulgaris</i> agg.	A Bladderwort	Nat	LE	1859
M150	<i>Vaccinium oxycoccos</i> s.l.	Cranberry / Small Cranberry	Nat	LS	2022
M209	<i>Valerianella locusta</i>	Common Cornsalad	Nat	LS	2022
M165	<i>Veronica agrestis</i>	Green Field-speedwell	Arch	LS	2023
M164	<i>Veronica anagallis-aquatica</i>	Blue Water-speedwell	Nat	LS	2023
M163	<i>Veronica montana</i>	Wood Speedwell	Nat	LS	2020
M042	<i>Vicia lathyroides</i>	Spring Vetch	Nat	LS	2023
M041	<i>Vicia lutea</i>	Yellow-vetch	Nat	LR	2014
M073	<i>Viola arvensis</i> x <i>tricolor</i> = <i>V. x contempta</i>	A Hybrid Pansy	Arch x Nat	LS	2021
M071	<i>Viola canina</i>	Heath Dog-violet	Nat	LS	2023
M070	<i>Viola hirta</i>	Hairy Violet	Nat	LR	2023
M072	<i>Viola tricolor</i>	Wild Pansy	Nat	LO	2023
M277	<i>Vulpia bromoides</i>	Squirreltail Fescue	Nat	LS	2022
M278	<i>Vulpia myuros</i>	Rat's-tail Fescue	Arch	LR	2017
M222	<i>Zostera marina</i>	Eelgrass	Nat	LR	2005

**Table 2.** List of taxa considered extinct (either not recorded from 1970 onwards or with all sites since 1970 knowingly lost). Also given are position in the list of extinct species (Ref), origin in Kincardineshire (Nat for native, Arch for archaeophyte), national recognition if any and when last recorded in Kincardineshire.

Ref	Taxon name	Vernacular	Origin	GB-IUCN	GB-H	SBL	Last
E001	<i>Lycopodiella inundata</i>	Marsh Clubmoss	Nat	EN	NS	SBL	1884
E002	<i>Isoetes echinospora</i>	Spring Quillwort	Nat	-	-	-	1868
E003	<i>Ophioglossum vulgatum</i>	Adder's-tongue	Nat	-	-	-	1859
E004	<i>Equisetum hyemale x variegatum</i> = <i>E. x trachyodon</i>	A Hybrid Horsetail	Nat	-	-	-	1877
E005	<i>Equisetum variegatum</i>	Variiegated Horsetail	Nat	-	-	-	1859
E006	<i>Osmunda regalis</i>	Royal Fern	Nat	-	-	-	1919
E007	<i>Pilularia globulifera</i>	Pillwort	Nat	NT	NS	SBL	1903
E008	<i>Nymphaea alba</i>	White Water-lily	Nat	-	-	-	1957
E009	<i>Glaucium flavum</i>	Yellow Horned-poppy	Nat	-	-	-	1859
E010	<i>Ranunculus omiophyllus</i>	Round-leaved Crowfoot	Nat	-	-	-	1958
E011	<i>Saxifraga hirculus</i>	Marsh Saxifrage	Nat	VU	NR	SBL	1842
E012	<i>Sedum villosum</i>	Hairy Stonecrop	Nat	NT	NS	-	1969
E013	<i>Lathyrus japonicus</i>	Sea Pea	Nat	-	NS	SBL	2014
E014	<i>Lathyrus sylvestris</i>	Narrow-leaved Everlasting-pea	Nat	-	-	SBL	1884
E015	<i>Filipendula vulgaris</i>	Dropwort	Nat	-	-	SBL	1859
E016	<i>Potentilla reptans</i>	Creeping Cinquefoil	Nat	-	-	-	1844
E017	<i>Rosa mollis x spinosissima</i> = <i>R. x sabinii</i>	A Hybrid Rose	Nat	-	-	-	1901
E018	<i>Elatine hexandra</i>	Six-stamened Waterwort	Nat	-	-	-	1859
E019	<i>Epilobium roseum</i>	Pale Willowherb	Nat	-	-	-	1957
E020	<i>Malva neglecta</i>	Dwarf Mallow	Arch	-	-	-	1859
E021	<i>Lepidium coronopus</i>	Swine-cress	Arch	-	-	SBL	1839
E022	<i>Subularia aquatica</i>	Awlwort	Nat	-	-	-	1874
E023	<i>Persicaria minor</i>	Small Water-pepper	Nat	VU	-	-	1919
E024	<i>Oxyria digyna</i>	Mountain Sorrel	Nat	-	-	-	1919
E025	<i>Drosera anglica</i>	Great Sundew	Nat	NT	-	-	1919
E026	<i>Arenaria leptoclados</i>	Slender Sandwort	Nat	-	-	-	1969
E027	<i>Sabulina verna</i>	Spring Sandwort	Nat	NT	NS	-	1852
E028	<i>Agrostemma githago</i>	Corncockle	Arch	-	-	-	1919
E029	<i>Saponaria officinalis</i>	Soapwort	Arch	-	-	-	1919
E030	<i>Salicornia</i>	Glasswort	Nat	-	-	-	1919
E031	<i>Lysimachia tenella</i>	Bog Pimpernel	Nat	-	-	-	1859
E032	<i>Orthilia secunda</i>	Serrated Wintergreen	Nat	-	-	-	1963
E033	<i>Moneses uniflora</i>	One-flowered Wintergreen	Nat	VU	NR	SBL	1839
E034	<i>Centaurium littorale</i>	Seaside Centaury	Nat	-	NS	-	1919
E035	<i>Lithospermum officinale</i>	Common Gromwell	Nat	-	-	SBL	1876
E036	<i>Buglossoides arvensis</i>	Field Gromwell	Arch	EN	-	-	1859
E037	<i>Mertensia maritima</i>	Oysterplant	Nat	NT	NS	-	2013
E038	<i>Plantago media</i>	Hoary Plantain	Nat	-	-	SBL	1948
E039	<i>Limosella aquatica</i>	Mudwort	Nat	-	-	-	1876
E040	<i>Utricularia vulgaris</i> agg.	A Bladderwort	Nat	-	-	-	1859
E041	<i>Utricularia intermedia</i> agg.	A Bladderwort	Nat	-	-	-	1957
E042	<i>Melampyrum sylvaticum</i>	Small Cow-wheat	Nat	EN	NS	SBL	1871
E043	<i>Jasione montana</i>	Sheep's-bit	Nat	-	-	-	1930

E044	<i>Carduus tenuiflorus</i>	Slender Thistle	Nat	-	-	-	1876
E045	<i>Onopordum acanthium</i>	Cotton Thistle	Arch	-	-	-	1960
E046	<i>Arnoseris minima</i>	Lamb's Succory	Arch	RE	-	-	1859
E047	<i>Hypochaeris glabra</i>	Smooth Cat's-ear	Nat	VU	-	SBL	1859
E048	<i>Crepis mollis</i>	Northern Hawk's-beard	Nat	EN	NS	SBL	1852
E049	<i>Crepis biennis</i>	Rough Hawk's-beard	Nat	-	-	-	1913
E050	<i>Omalotheca supina</i>	Dwarf Cudweed	Nat	NT	-	-	1859
E051	<i>Anthemis arvensis</i>	Corn Chamomile	Arch	EN	-	-	1919
E052	<i>Bidens cernua</i>	Nodding Bur-marigold	Nat	-	-	-	1859
E053	<i>Sambucus ebulus</i>	Dwarf Elder	Arch	-	-	SBL	1960
E054	<i>Eryngium maritimum</i>	Sea-holly	Nat	-	-	SBL	1845
E055	<i>Smyrniolum olusatrum</i>	Alexanders	Arch	-	-	-	1960
E056	<i>Scandix pecten-veneris</i>	Shepherd's-needle	Arch	CR	-	-	1919
E057	<i>Carum carvi</i>	Caraway	Arch	EN	NR	SBL	1919
E058	<i>Potamogeton gramineus x natans</i> = <i>P. x sparganiiifolius</i>	Ribbon-leaved Pondweed	Nat	-	-	-	1873
E059	<i>Potamogeton lucens</i>	Shining Pondweed	Nat	-	-	-	1859
E060	<i>Potamogeton gramineus</i>	Various-leaved Pondweed	Nat	-	-	-	1880
E061	<i>Potamogeton gramineus x perfoliatus</i> = <i>P. x nitens</i>	Bright-leaved Pondweed	Nat	-	-	-	1874
E062	<i>Stuckenia pectinata</i>	Fennel Pondweed	Nat	-	-	-	1849
E063	<i>Ruppia maritima</i>	Beaked Tasselweed	Nat	-	-	-	1876
E064	<i>Hammarbya paludosa</i>	Bog Orchid	Nat	-	-	-	1960
E065	<i>Pseudorchis albida</i>	Small-white Orchid	Nat	VU	-	SBL	1979
E066	<i>Dactylorhiza viridis</i>	Frog Orchid	Nat	VU	-	SBL	1967
E067	<i>Juncus balticus</i>	Baltic Rush	Nat	-	NS	-	1876
E068	<i>Juncus filiformis</i>	Thread Rush	Nat	-	NS	-	1987
E069	<i>Schoenoplectus lacustris</i>	Common Club-rush	Nat	-	-	-	1871
E070	<i>Schoenus nigricans</i>	Black Bog-rush	Nat	-	-	-	1859
E071	<i>Rhynchospora alba</i>	White Beak-sedge	Nat	-	-	-	1948
E072	<i>Carex paniculata</i>	Greater Tussock-sedge	Nat	-	-	-	1847
E073	<i>Carex acutiformis</i>	Lesser Pond-sedge	Nat	-	-	-	1904
E074	<i>Carex aquatilis</i>	Water Sedge	Nat	-	-	-	1859
E075	<i>Catabrosa aquatica</i>	Whorl-grass	Nat	-	-	-	1859
E076	<i>Aristavena setacea</i>	Bog Hair-grass	Nat	-	NS	-	1919
E077	<i>Bromus secalinus</i>	Rye Brome	Arch	NT	-	SBL	1919
E078	<i>Elymus repens x junceiformis</i> = <i>E. x laxus</i>	A Hybrid Couch	Nat	-	-	-	1959
E079	<i>Hordeum murinum</i>	Wall Barley	Arch	-	-	-	1859

**Table 3.** List of taxa recorded in the period from 1970 to present, in taxonomic order, with at least one of the three levels of national status considered. Also given are position in the main list of taxa (Ref), origin in Kincardineshire (Nat for native, Arch for archaeophyte), year of latest record (Last) and the number of sites recorded at since 2000 (No.Sites) each has been recorded in from 2000 to 2023.

Ref	Taxon name	Vernacular	Origin	GB-IUCN	GB-H	SBL	Last	No. Sites
M004	<i>Ophioglossum azoricum</i>	Small Adder's-tongue	Nat	-	NS	-	2023	1
M010	<i>Cystopteris dickieana</i>	Dickie's Bladder-fern	Nat	VU	NR	SBL	2022	1
M015	<i>Juniperus communis</i>	Juniper	Nat	-	-	SBL	2022	11+
M019	<i>Roemeria argemone</i>	Prickly Poppy	Arch	VU	-	SBL	2016	1
M020	<i>Chelidonium majus</i>	Greater Celandine	Arch	-	-	SBL	2018	2
M021	<i>Fumaria capreolata</i>	White Ramping-fumitory	Nat	-	-	SBL	2005	2
M034	<i>Saxifraga hypnoides</i>	Mossy Saxifrage	Nat	VU	-	SBL	2000	1
M038	<i>Astragalus danicus</i>	Purple Milk-vetch	Nat	EN	-	SBL	2023	11+
M041	<i>Vicia lutea</i>	Yellow-vetch	Nat	NT	NS	SLB	2014	2
M045	<i>Trifolium micranthum</i>	Slender Trefoil	Nat	-	-	SBL	2016	2
M052	<i>Potentilla argentea</i>	Hoary Cinquefoil	Nat	NT	-	SBL	2019	1
M053	<i>Potentilla crantzii</i>	Alpine Cinquefoil	Nat	-	NS	-	2023	1
M071	<i>Viola canina</i>	Heath Dog-violet	Nat	NT	-	-	2023	9
M072	<i>Viola tricolor</i>	Wild Pansy	Nat	NT	-	SBL	2023	11+
M088	<i>Euphorbia helioscopia</i>	Sun Spurge	Arch	-	-	SBL	2023	11+
M089	<i>Linum radiola</i>	Allseed	Nat	NT	-	-	2015	1
M104	<i>Arabidopsis petraea</i>	Northern Rock-cress	Nat	VU	NS	-	2007	1
M109	<i>Lepidium campestre</i>	Field Pepperwort	Arch	-	-	SBL	2023	2
M112	<i>Sinapis arvensis</i>	Charlock	Arch	-	-	SBL	2023	11+
M113	<i>Sinapis alba</i>	White Mustard	Arch	-	-	SBL	2015	3
M117	<i>Cochlearia officinalis</i> <i>subsp. scotica</i>	Scottish Scurvygrass	Nat	-	NS	SBL	1999	0
M118	<i>Teesdalia nudicaulis</i>	Shepherd's Cress	Nat	NT	-	SBL	2023	5
M123	<i>Fallopia convolvulus</i>	Black-bindweed	Arch	-	-	SBL	2023	11+
M124	<i>Rumex alpinus</i>	Monk's-rhubarb	Arch	NT	-	-	2023	7
M133	<i>Scleranthus annuus</i>	Annual Knawel	Nat	EN	-	SBL	2022	3
M134	<i>Spergula arvensis</i>	Corn Spurrey	Arch	VU	-	-	2023	11+
M136	<i>Silene nutans</i>	Nottingham Catchfly	Nat	NT	NS	SBL	2022	2
M138	<i>Dianthus deltoides</i>	Maiden Pink	Nat	NT	NS	-	2023	5
M141	<i>Blitum bonus-henricus</i>	Good-King-Henry	Arch	VU	-	SBL	1993	0
M143	<i>Salsola kali</i>	Prickly Saltwort	Nat	VU	-	SBL	2017	1
M144	<i>Cornus suecica</i>	Dwarf Cornel	Nat	NT	-	-	2020	1
M148	<i>Lysimachia arvensis s.l.</i>	Scarlet Pimpernel	Nat	-	-	SBL	2021	4
M152	<i>Pyrola media</i>	Intermediate Wintergreen	Nat	VU	-	SBL	2022	4
M153	<i>Sherardia arvensis</i>	Field Madder	Nat	-	-	SBL	2021	5
M156	<i>Gentianella campestris</i>	Field Gentian	Nat	VU	-	SBL	2023	2
M162	<i>Hyoscyamus niger</i>	Henbane	Arch	VU	-	SBL	2022	1
M174	<i>Stachys arvensis</i>	Field Woundwort	Arch	NT	-	SBL	2022	5
M175	<i>Galeopsis speciosa</i>	Large-flowered Hemp-nettle	Arch	VU	-	SBL	2023	11+
M180	<i>Mentha arvensis</i>	Corn Mint	Nat	-	-	SBL	2016	10
M184	<i>Euphrasia arctica</i>	Arctic Eyebright	Nat	NT	-	-	2023	11+
M187	<i>Euphrasia tetraquetra</i>	Western Eyebright	Nat	NT	-	-	2021	2
M188	<i>Euphrasia nemorosa</i>	Common Eyebright	Nat	NT	-	-	2004	1
M189	<i>Euphrasia confusa</i>	Confused Eyebright	Nat	VU	-	-	1988	0
M190	<i>Euphrasia micrantha</i>	Slender Eyebright	Nat	VU	-	-	2022	11+

M192	<i>Euphrasia scottica</i>	Scottish Eyebright	Nat	NT	-	-	1988	0
M193	<i>Campanula glomerata</i>	Clustered Bellflower	Nat	-	-	SBL	2022	3
M197	<i>Centaurea cyanus</i>	Cornflower	Arch	-	-	SBL	2021	6
M198	<i>Cichorium intybus</i>	Chicory	Arch	-	-	SBL	2007	1
M201	<i>Filago germanica</i>	Common Cudweed	Nat	NT	-	SBL	2021	1
M203	<i>Omalotheca sylvatica</i>	Heath Cudweed	Nat	EN	-	SBL	2022	11+
M207	<i>Glebionis segetum</i>	Corn Marigold	Arch	VU	-	-	2020	11+
M208	<i>Linnaea borealis</i>	Twinflower	Nat	-	NS	SBL	2023	1
M217	<i>Meum athamanticum</i>	Spignel	Nat	NT	NS	-	2022	5
M218	<i>Imperatoria ostruthium</i>	Masterwort	Arch	NT	NS	-	2020	3
M222	<i>Zostera marina</i>	Eelgrass	Nat	NT	-	-	2005	1
M229	<i>Corallorhiza trifida</i>	Coralroot Orchid	Nat	VU	NS	-	2023	7
M230	<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	Nat	NT	-	SBL	2021	3
M231	<i>Platanthera bifolia</i>	Lesser Butterfly-orchid	Nat	VU	-	SBL	2022	6
M236	<i>Allium oleraceum</i>	Field Garlic	Nat	VU	-	SBL	2005	2
M251	<i>Carex diandra</i>	Lesser Tussock-sedge	Nat	NT	-	-	2022	8
M256	<i>Carex maritima</i>	Curved Sedge	Nat	EN	NS	SBL	1979	0
M275	<i>Festuca arenaria</i>	Rush-leaved Fescue	Nat	-	NS	-	2023	1
M280	<i>Puccinellia distans</i> <i>subsp. borealis</i>	Reflexed Saltmarsh-grass	Nat	-	NS	-	2021	5
M289	<i>Bromus hordeaceus</i> <i>subsp. ferronii</i>	Least Soft-brome	Nat	-	NS	-	2006	1

**Table 4.** List of taxa recorded between 1970 and 1999 but for which there are no recent (2000 onwards) records, excluding taxa appearing in Tables 2 and 7. Also given are position in the main listing (Ref), origins in Kincardineshire (Nat for native, Arch for archaeophyte), and year of most recent record from Kincardineshire (Last).

<b>Ref</b>	<b>Taxon name</b>	<b>Vernacular</b>	<b>Origin</b>	<b>Last</b>
M003	<i>Isoetes lacustris</i>	Quillwort	Nat	1988
M024	<i>Fumaria densiflora</i>	Dense-flowered Fumitory	Arch	1998
M028	<i>Ranunculus trichophyllus</i>	Thread-leaved Water-crowfoot	Nat	1981
M063	<i>Rosa mollis</i> x <i>rubiginosa</i> = <i>R. x molliformis</i> ( <i>f x m</i> )	A Hybrid Rose	Nat x Nat	1978
M065	<i>Rosa rubiginosa</i> x <i>spinosissima</i> = <i>R. x biturigenis</i>	A Hybrid Rose	Nat x Nat	1987
M067	<i>Parietaria judaica</i>	Pellitory-of-the-Wall	Nat?	1999
M076	<i>Salix purpurea</i> x <i>viminalis</i> = <i>S. x rubra</i>	Green-leaved Willow	Nat x Arch	1978
M110	<i>Descurainia sophia</i>	Flixweed	Arch	1995
M166	<i>Chaenorhinum minus</i>	Small Toadflax	Arch	1999
M171	<i>Callitriche platycarpa</i>	Various-leaved Water-starwort	Nat	1981
M194	<i>Lobelia dortmanna</i>	Water Lobelia	Nat	1983
M211	<i>Helosciadium nodiflorum</i>	Fool's-water-cress	Nat	1996
M270	<i>Glyceria fluitans</i> x <i>notata</i> = <i>G. x pedicellata</i>	Hybrid Sweet-grass	Nat	1997

**Table 5.** Taxa which are considered locally rare (LR) excluding taxa appearing in Tables 2 and 7. Also given are position in the main list (Ref), origins in Kincardineshire origin (Nat for native, Arch for archaeophyte), year of most recent record (Last) and the number of sites (No.Sites) each has been recorded in from 2000 to 2023.

Ref	Taxon name	Vernacular	Origin	Last	No.Sites
M005	<i>Botrychium lunaria</i>	Moonwort	Nat	2022	1
M007	<i>Equisetum arvense x fluviatile = E. x litorale</i>	A Hybrid Horsetail	Nat x Nat	2021	3
M008	<i>Equisetum pratense</i>	Shady Horsetail	Nat	2021	1
M009	<i>Cryptogramma crispa</i>	Parsley Fern	Nat	2023	1
M011	<i>Asplenium ceterach</i>	Rustyback	Nat?	2020	1
M012	<i>Polystichum setiferum</i>	Soft Shield-fern	Nat	2021	1
M013	<i>Dryopteris oreades</i>	Mountain Male-fern	Nat	2023	3
M014	<i>Polypodium interjectum</i>	Intermediate Polypody	Nat	2020	1
M016	<i>Ceratophyllum demersum</i>	Rigid Hornwort	Nat	2021	1
M022	<i>Fumaria bastardii</i>	Tall Ramping-fumitory	Nat	2015	1
M023	<i>Fumaria reuteri</i>	Martin's Ramping-fumitory	Nat	2016	1
M027	<i>Ranunculus sceleratus</i>	Celery-leaved Buttercup	Nat	2019	2
M030	<i>Ranunculus peltatus</i>	Pond Water-crowfoot	Nat	2019	1
M031	<i>Ranunculus penicillatus</i>	Stream Water-crowfoot	Nat	2021	1
M032	<i>Thalictrum minus</i>	Lesser Meadow-rue	Nat	2017	3
M033	<i>Saxifraga aizoides</i>	Yellow Saxifrage	Nat	2023	1
M035	<i>Micranthes stellaris</i>	Starry Saxifrage	Nat	2020	3
M039	<i>Astragalus glycyphyllos</i>	Wild Liquorice	Nat	2021	3
M040	<i>Ornithopus perpusillus</i>	Bird's-foot	Nat	2021	2
M046	<i>Trifolium striatum</i>	Knotted Clover	Nat	2021	3
M047	<i>Trifolium scabrum</i>	Rough Clover	Nat	2022	1
M051	<i>Rubus saxatilis</i>	Stone Bramble	Nat	2023	3
M054	<i>Potentilla anglica x erecta = P. x suberecta</i>	A Hybrid Tormentil	Nat x Nat	2021	1
M055	<i>Potentilla anglica</i>	Trailing Tormentil	Nat	2021	1
M058	<i>Alchemilla alpina</i>	Alpine Lady's-mantle	Nat	2015	2
M059	<i>Alchemilla filicaulis</i>	Hairy Lady's-mantle	Nat	2021	2
M060	<i>Aphanes arvensis s.s.</i>	Parsley-piert	Nat	2011	3
M062	<i>Rosa caesia s.l. x sherardii</i>	A Hybrid Rose	Nat x Nat	2021	3
M070	<i>Viola hirta</i>	Hairy Violet	Nat	2023	2
M075	<i>Salix triandra</i>	Almond Willow	Arch	2021	1
M077	<i>Salix caprea x cinerea x viminalis = S. x calodendron</i>	Holme Willow	Nat x Arch	2022	3
M078	<i>Salix viminalis x cinerea = S. x holosericea</i>	Silky-leaved Willow	Nat x Arch	2012	3
M079	<i>Salix aurita x viminalis = S. x fruticosa</i>	Shrubby Osier	Nat x Arch	2020	3
M080	<i>Salix caprea x cinerea = S. x reichardtii</i>	A Hybrid Willow	Nat	2021	1
M081	<i>Salix caprea x myrsinifolia = S. x latifolia</i>	A Hybrid Willow	Nat	2022	1
M082	<i>Salix cinerea x repens = S. x subsericea</i>	A Hybrid Willow	Nat	2015	1
M083	<i>Salix cinerea x phylicifolia = S. x laurina</i>	Laurel-leaved Willow	Nat	2023	3
M084	<i>Salix aurita x repens = S. x ambigua</i>	A Hybrid Willow	Nat	2023	1
M086	<i>Salix myrsinifolia x phylicifolia = S. x tetrapla</i>	A Hybrid Willow	Nat	2012	2
M096	<i>Epilobium montanum x parviflorum = E. x limosum</i>	A Hybrid Willowherb	Nat	2020	1
M097	<i>Epilobium alsinifolium</i>	Chickweed Willowherb	Nat	2019	2

M098	<i>Epilobium anagallidifolium</i>	Alpine Willowherb	Nat	2019	1
M102	<i>Erysimum cheiranthoides</i>	Treacle mustard	Arch	2021	1
M105	<i>Rorippa palustris</i>	Marsh Yellow-cress	Nat	2023	1
M111	<i>Arabis hirsuta</i>	Hairy Rock-cress	Nat	2021	1
M115	<i>Crambe maritima</i>	Sea-kale	Nat	2022	3
M121	<i>Polygonum oxyspermum</i>	Ray's Knotgrass	Nat	2023	2
M122	<i>Polygonum boreale</i>	Northern Knotgrass	Nat	2022	1
M125	<i>Rumex crispus x obtusifolius = R. x pratensis</i>	A Hybrid Dock	Nat	2015	3
M130	<i>Cerastium semidecandrum</i>	Little Mouse-ear	Nat	2021	3
M131	<i>Sagina nodosa</i>	Knotted Pearlwort	Nat	2022	2
M137	<i>Silene vulgaris</i>	Bladder Campion	Nat	2021	2
M142	<i>Suaeda maritima</i>	Annual Sea-blite	Nat	2020	1
M146	<i>Lysimachia vulgaris</i>	Yellow Loosestrife	Nat	2019	1
M155	<i>Centaurium erythraea</i>	Common Centaury	Nat	2009	1
M158	<i>Myosotis laxa x scorpioides = M. x suzae</i>	A Hybrid Forget-me-not	Nat x Nat	2002	1
M167	<i>Linaria repens</i>	Pale Toadflax	Arch	2020	2
M172	<i>Scrophularia auriculata</i>	Water Figwort	Nat	2011	2
M179	<i>Lycopus europaeus</i>	Gypsywort	Nat	2018	1
M185	<i>Euphrasia arctica x tetraquetra = E. x pratiuscula</i>	A Hybrid Eyebright	Nat x Nat	2007	1
M186	<i>Euphrasia arctica x confusa</i>	A Hybrid Eyebright	Nat	2008	1
M191	<i>Euphrasia micrantha x scottica = E. x electa</i>	A Hybrid Eyebright	Nat x Nat	2022	1
M199	<i>Leontodon saxatilis</i>	Lesser Hawkbit	Nat	2021	1
M202	<i>Antennaria dioica</i>	Mountain Everlasting	Nat	2019	1
M204	<i>Tripolium pannonicum</i>	Sea Aster	Nat	2020	3
M206	<i>Artemisia maritima</i>	Sea Wormwood	Natve	2021	3
M213	<i>Chaerophyllum temulum</i>	Rough Chervil	Nat	2022	1
M214	<i>Anthriscus caucalis</i>	Bur Chervil	Nat	2006	1
M215	<i>Daucus carota</i>	A Carrot	Nat	2022	3
M216	<i>Trocdaris verticillata</i>	Whorled Caraway	Nat	2002	1
M219	<i>Lemna trisulca</i>	Ivy-leaved Duckweed	Nat	2021	3
M220	<i>Alisma plantago-aquatica</i>	Water-plantain	Nat	2012	2
M223	<i>Potamogeton perfoliatus</i>	Perfoliate Pondweed	Nat	2022	3
M225	<i>Potamogeton pusillus</i>	Lesser Pondweed	Nat	2001	2
M227	<i>Paris quadrifolia</i>	Herb-Paris	Nat	2021	1
M228	<i>Neottia ovata</i>	Common Twayblade	Nat	2020	2
M233	<i>Dactylorhiza maculata x purpurella = D. x formosa</i>	A Hybrid Marsh-orchid	Nat	2022	1
M239	<i>Sparganium emersum</i>	Unbranched Bur-reed	Nat	2017	2
M240	<i>Sparganium angustifolium</i>	Floating Bur-reed	Nat	2001	1
M242	<i>Juncus maritimus</i>	Sea Rush	Nat	2021	1
M244	<i>Bolboschoenus maritimus</i>	Sea Club-rush	Nat	2020	3
M245	<i>Scirpus sylvaticus</i>	Wood Club-rush	Nat	2022	3
M246	<i>Eleocharis uniglumis</i>	Slender Spike-rush	Nat	2020	1
M252	<i>Carex spicata</i>	Spiked Sedge	Nat	2023	3
M253	<i>Carex muricata</i>	Prickly Sedge	Nat	2022	3
M254	<i>Carex arenaria</i>	Sand Sedge	Nat	2021	3
M258	<i>Carex lasiocarpa</i>	Slender Sedge	Nat	2021	2
M259	<i>Carex riparia</i>	Greater Pond-sedge	Nat	2019	1

M260	<i>Carex rostrata x vesicaria = C. x involuta</i>	A Hybrid Sedge	Nat x Nat	2005	1
M261	<i>Carex vesicaria</i>	Bladder-sedge	Nat	2020	1
M263	<i>Carex extensa</i>	Long-bracted Sedge	Nat	2019	1
M264	<i>Carex hostiana x demissa</i>	A Hybrid Sedge	Nat	2023	1
M266	<i>Carex viridula</i>	Small-fruited Yellow-sedge	Nat	2019	1
M268	<i>Carex bigelowii</i>	Stiff Sedge	Nat	2018	1
M271	<i>Glyceria notata</i>	Plicate Sweet-grass	Nat	2023	2
M272	<i>Melica nutans</i>	Mountain Melick	Nat	2010	1
M273	<i>Melica uniflora</i>	Wood Melick	Nat	2018	2
M274	<i>Drymochloa sylvatica</i>	Wood Fescue	Nat	2017	1
M278	<i>Vulpia myuros</i>	Rat's-tail Fescue	Arch	2017	1
M287	<i>Milium effusum</i>	Wood Millet	Nat	2022	3
M288	<i>Phleum arenarium</i>	Sand Cat's-tail	Nat	2023	1
M293	<i>Chara virgata</i>	Delicate Stonewort	Nat	2016	2
M294	<i>Nitella flexilis s.l.</i>	A Smooth Stonewort	Nat	2020	2
M295	<i>Nitella translucens</i>	Translucent Stonewort	Nat	2013	1

**Table 6.** Species and hybrids which are considered locally scarce (LS) excluding taxa appearing in Tables 2 and 7. Also given are position in the main list (Ref), origins in Kincardineshire, year of most recent record (Last) and the number of sites (No.Sites) each has been recorded in from 2000 to 2023.

Ref	Taxon name	Vernacular	Origin	Last	No.Sites
M001	<i>Diphasiastrum alpinum</i>	Alpine Clubmoss	Nat	2022	7
M002	<i>Selaginella selaginoides</i>	Lesser Clubmoss	Nat	2022	7
M006	<i>Equisetum hyemale</i>	Rough Horsetail	Nat	2023	7
M017	<i>Papaver somniferum</i>	Opium Poppy	Arch	2019	7
M018	<i>Papaver rhoeas</i>	Common Poppy	Arch	2020	7
M025	<i>Trollius europaeus</i>	Globeflower	Nat	2023	9
M026	<i>Ranunculus auricomus</i>	Goldilocks Buttercup	Nat	2023	5
M029	<i>Ranunculus aquatilis</i> s.s.	Common Water-crowfoot	Nat	2019	7
M036	<i>Sedum album</i>	White Stonecrop	Arch	2020	7
M037	<i>Myriophyllum spicatum</i>	Spiked Water-milfoil	Nat	2019	5
M042	<i>Vicia lathyroides</i>	Spring Vetch	Nat	2023	5
M043	<i>Ervilia sylvatica</i>	Wood Vetch	Nat	2023	10
M044	<i>Ononis repens</i>	Common Restharrow	Nat	2022	5
M048	<i>Trifolium arvense</i>	Hare's-foot Clover	Nat	2022	10
M049	<i>Polygala vulgaris</i>	Common Milkwort	Nat	2023	4
M050	<i>Prunus domestica</i>	Wild Plum	Arch	2022	6
M056	<i>Geum rivale</i> x <i>urbanum</i> = <i>G. x intermedium</i>	Hybrid Avens	Nat x Nat	2020	4
M057	<i>Agrimonia procera</i>	Fragrant Agrimony	Nat	2021	4
M061	<i>Rosa caesia</i> s.l. x <i>canina</i>	A Hybrid Rose	Nat x Nat	2023	6
M064	<i>Rosa rubiginosa</i>	Sweet-briar	Nat	2023	5
M066	<i>Urtica urens</i>	Small Nettle	Arch	2022	5
M068	<i>Parnassia palustris</i>	Grass-of-Parnassus	Nat	2023	5
M069	<i>Hypericum maculatum</i> x <i>perforatum</i> = <i>H. x desetangsii</i>	Des Etang's St John's-wort	Nat x Nat	2010	4
M073	<i>Viola arvensis</i> x <i>tricolor</i> = <i>V. x contempta</i>	A Hybrid Pansy	Arch x Nat	2021	4
M074	<i>Salix pentandra</i>	Bay Willow	Nat	2023	10
M085	<i>Salix myrsinifolia</i>	Dark-leaved Willow	Nat	2021	8
M087	<i>Salix phylicifolia</i>	Tea-leaved Willow	Nat	2023	8
M090	<i>Geranium pusillum</i>	Small-flowered Crane's-bill	Nat	2023	7
M091	<i>Geranium lucidum</i>	Shining Crane's-bill	Nat	2023	6
M092	<i>Erodium cicutarium</i> s.s.	Common Stork's-bill	Nat	2021	7
M093	<i>Lythrum salicaria</i>	Purple-loosestrife	Nat	2020	5
M094	<i>Lythrum portula</i>	Water-purslane	Nat	2022	10
M095	<i>Epilobium parviflorum</i>	Hoary Willowherb	Nat	2021	8
M099	<i>Circaea lutetiana</i>	Enchanter's-nightshade	Nat	2023	7
M100	<i>Malva sylvestris</i>	Common Mallow	Arch	2019	8
M101	<i>Reseda luteola</i>	Weld	Arch	2018	4
M103	<i>Erysimum cheiri</i>	Wallflower	Arch	2023	4
M106	<i>Rorippa sylvestris</i>	Creeping Yellow-cress	Nat	2021	8
M107	<i>Nasturtium officinale</i> s.s.	Water-cress	Nat	2021	4
M108	<i>Nasturtium officinale</i> x <i>microphyllum</i> = <i>N. x sterile</i>	Hybrid Water-cress	Nat	2023	4
M114	<i>Cakile maritima</i>	Sea Rocket	Nat	2022	6
M116	<i>Raphanus raphanistrum</i>	Radish	Arch	2021	8
M119	<i>Persicaria lapathifolia</i>	Pale Persicaria	Nat	2020	7

M120	<i>Bistorta vivipara</i>	Alpine Bistort	Nat	2021	4
M126	<i>Arenaria serpyllifolia</i> s.s.	Thyme-leaved Sandwort	Nat	2019	5
M127	<i>Honckenya peploides</i>	Sea Sandwort	Nat	2023	9
M128	<i>Stellaria nemorum</i>	Wood Stitchwort	Nat	2023	5
M129	<i>Cerastium arvense</i>	Field Mouse-ear	Nat	2023	5
M132	<i>Sagina maritima</i>	Sea Pearlwort	Nat	2021	9
M135	<i>Spergularia media</i>	Greater Sea-spurrey	Nat	2023	6
M139	<i>Atriplex littoralis</i>	Grass-leaved Orache	Nat	2020	4
M140	<i>Atriplex laciniata</i>	Frosted Orache	Nat	2017	4
M145	<i>Primula veris</i> x <i>vulgaris</i> = <i>P. x polyantha</i>	False Oxlip	Nat	2021	4
M147	<i>Lysimachia maritima</i>	Sea-milkwort	Nat	2022	8
M149	<i>Arctostaphylos uva-ursi</i>	Bearberry	Nat	2022	7
M150	<i>Vaccinium oxycoccos</i> s.l.	Cranberry / Small Cranberry	Nat	2022	7
M151	<i>Pyrola minor</i>	Common Wintergreen	Nat	2023	9
M154	<i>Cruciata laevipes</i>	Crosswort	Nat	2020	6
M157	<i>Echium vulgare</i>	Viper's-bugloss	Nat	2020	5
M159	<i>Myosotis sylvatica</i>	Wood Forget-me-not	Nat	2021	10
M160	<i>Myosotis ramosissima</i>	Early Forget-me-not	Nat	2023	4
M161	<i>Convolvulus arvensis</i>	Field Bindweed	Nat	2022	6
M163	<i>Veronica montana</i>	Wood Speedwell	Nat	2020	5
M164	<i>Veronica anagallis-aquatica</i>	Blue Water-speedwell	Nat	2023	7
M165	<i>Veronica agrestis</i>	Green Field-speedwell	Arch	2023	10
M168	<i>Littorella uniflora</i>	Shoreweed	Nat	2019	6
M169	<i>Hippuris vulgaris</i>	Mare's-tail	Nat	2023	5
M170	<i>Callitriche hermaphroditica</i>	Autumnal Water-starwort	Nat	2023	4
M173	<i>Utricularia minor</i>	Lesser Bladderwort	Nat	2023	4
M176	<i>Scutellaria galericulata</i>	Skullcap	Nat	2010	4
M177	<i>Clinopodium vulgare</i>	Wild Basil	Nat	2023	6
M178	<i>Origanum vulgare</i>	Wild Marjoram	Nat	2021	7
M181	<i>Mentha aquatica</i> x <i>spicata</i> = <i>M. x piperita</i>	Peppermint	Nat x Arch	2019	10
M182	<i>Mentha spicata</i>	Spear Mint	Arch	2017	4
M183	<i>Melampyrum pratense</i>	Common Cow-wheat	Nat	2022	6
M195	<i>Carlina vulgaris</i>	Carlina Thistle	Nat	2022	6
M196	<i>Carduus crispus</i>	Wetted Thistle	Nat	2021	4
M200	<i>Mycelis muralis</i>	Wall Lettuce	Nat	2022	4
M205	<i>Artemisia vulgaris</i>	Mugwort	Arch	2023	9
M209	<i>Valerianella locusta</i>	Common Cornsalad	Nat	2022	5
M210	<i>Sanicula europaea</i>	Sanicle	Nat	2023	7
M212	<i>Helosciadium inundatum</i>	Lesser Marshwort	Nat	2020	4
M221	<i>Triglochin maritima</i>	Sea Arrowgrass	Nat	2021	7
M224	<i>Potamogeton obtusifolius</i>	Blunt-leaved Pondweed	Nat	2011	4
M226	<i>Potamogeton crispus</i>	Curled Pondweed	Nat	2022	10
M232	<i>Gymnadenia conopsea</i> s.l.	A Fragrant-orchid	Nat	2022	6
M234	<i>Dactylorhiza incarnata</i>	Early Marsh-orchid	Nat	2014	4
M235	<i>Orchis mascula</i>	Early-purple Orchid	Nat	2023	9
M237	<i>Allium scorodoprasum</i>	Sand Leek	Nat	2023	4
M238	<i>Allium vineale</i>	Wild Onion	Nat	2023	5
M241	<i>Sparganium natans</i>	Least Bur-reed	Nat	2020	5
M243	<i>Juncus inflexus</i>	Hard Rush	Nat	2023	5

M247	<i>Eleocharis multicaulis</i>	Many-stalked Spike-rush	Nat	2023	7
M248	<i>Eleocharis quinqueflora</i>	Few-flowered Spike-rush	Nat	2022	10
M249	<i>Eleogiton fluitans</i>	Floating Club-rush	Nat	2023	4
M250	<i>Blysmus rufus</i>	Saltmarsh Flat-sedge	Nat	2022	5
M255	<i>Carex disticha</i>	Brown Sedge	Nat	2021	8
M257	<i>Carex dioica</i>	Dioecious Sedge	Nat	2022	9
M262	<i>Carex sylvatica</i>	Wood-sedge	Nat	2023	7
M265	<i>Carex lepidocarpa</i>	Long-stalked Yellow-sedge	Nat	2022	5
M267	<i>Carex pallescens</i>	Pale Sedge	Nat	2021	8
M269	<i>Carex pauciflora</i>	Few-flowered Sedge	Nat	2022	10
M276	<i>Festuca vivipara</i>	Viviparous Sheep's-fescue	Nat	2022	4
M277	<i>Vulpia bromoides</i>	Squirreltail Fescue	Nat	2022	6
M279	<i>Puccinellia maritima</i>	Common Saltmarsh-grass	Nat	2020	6
M281	<i>Trisetum flavescens</i>	Yellow Oat-grass	Nat	2023	6
M282	<i>Avenula pubescens</i>	Downy Oat-grass	Nat	2022	6
M283	<i>Briza media</i>	Quaking-grass	Nat	2023	9
M284	<i>Agrostis gigantea</i>	Black Bent	Arch	2022	9
M285	<i>Calamagrostis epigejos</i>	Wood Small-reed	Nat	2022	4
M286	<i>Ammophila arenaria</i>	Marram	Nat	2022	6
M290	<i>Bromopsis ramosa</i>	Hairy-brome	Nat	2020	8
M291	<i>Elymus junceiformis</i>	Sand Couch	Nat	2020	6
M292	<i>Leymus arenarius</i>	Lyme-grass	Nat	2021	7

**Table 7.** Bramble (*Rubus fruticosus agg.*), Dandelion (*Taraxacum*) and Hawkweed (*Hieracium*) species included in the Register on the basis of numbers of sites from 2000 to 2022. Also given are position the list of critical taxa (Ref), origins in Kincardineshire, year of most recent record (Last) and the number of sites (No.Sites) each has been recorded in from 2000 to 2023.

Ref	Taxon name	Vernacular	Origin	Last	No.Sites
C001	<i>Rubus anglocandicans</i>	A Bramble	Nat	2020	1
C002	<i>Rubus dasyphyllus</i>	A Bramble	Nat	2022	10
C003	<i>Rubus errabundus</i>	A Bramble	Nat	2022	2
C004	<i>Rubus fissus</i>	Cleft Bramble	Nat	2021	3
C005	<i>Rubus furvicolor</i>	A Bramble	Nat	2013	1
C006	<i>Rubus infestus</i>	A Bramble	Nat	1988	0
C007	<i>Rubus lindleianus</i>	A Bramble	Nat	2020	1
C008	<i>Rubus longiflorus</i>	A Bramble	Nat	2020	2
C009	<i>Rubus nemoralis</i>	A Bramble	Nat	2020	1
C010	<i>Rubus pictorum</i>	A Bramble	Nat	2018	7
C011	<i>Rubus plicatus</i>	Plaited-leaved Bramble	Nat	2022	4
C012	<i>Rubus polyanthemus</i>	A Bramble	Nat	2022	7
C013	<i>Rubus septentrionalis</i>	Stellately-hairy Bramble	Nat	2022	1
C014	<i>Rubus surrejanus</i>	A Bramble	Nat	2021	1
C015	<i>Rubus ulmifolius</i>	Elm-leaf Blackberry	Nat	2023	3
C016	<i>Rubus vestitus</i>	A Bramble	Nat	2021	3
C017	<i>Taraxacum argutum</i>	Sharp-toothed Dandelion	Nat	1997	0
C018	<i>Taraxacum boekmanii</i>	Bökman's Dandelion	Nat	1997	0
C019	<i>Taraxacum brachyglossum</i>	Purple-bracted Dandelion	Nat	1996	0
C020	<i>Taraxacum bracteatum</i>	Dark-green Dandelion	Nat	1998	0
C021	<i>Taraxacum cyanolepis</i>	Bluish-bracted Dandelion	Nat	2017	1
C022	<i>Taraxacum dilatatum</i>	Grassland Dandelion	Nat	1996	0
C023	<i>Taraxacum duplidentifrons</i>	Double-toothed Dandelion	Nat	1997	0
C024	<i>Taraxacum ekmanii</i>	Ekman's Dandelion	Nat	1996	0
C025	<i>Taraxacum euryphyllum</i>	Wide-stalked Dandelion	Nat	1977	0
C026	<i>Taraxacum excellens</i>	Purple-blotched Dandelion	Nat	1995	0
C027	<i>Taraxacum expallidiforme</i>	Broad-stalked Dandelion	Nat	1996	0
C028	<i>Taraxacum faeroense</i>	Faeroes Dandelion	Nat	2021	1
C029	<i>Taraxacum fulviforme</i>	Green-bracted Dandelion	Nat	1977	0
C030	<i>Taraxacum fulvum</i>	Cinnamon-fruited Dandelion	Nat	1977	0
C031	<i>Taraxacum gelertii</i>	Gelert's Dandelion	Nat	1997	0
C032	<i>Taraxacum hamatiforme</i>	Asymmetrical Hook-lobed Dandelion	Nat	1996	0
C033	<i>Taraxacum hamatum</i>	Slender Hook-lobed Dandelion	Nat	2021	1
C034	<i>Taraxacum hamatum</i>	Hook-lobed Dandelion	Nat	1997	0
C035	<i>Taraxacum insigne</i>	Remarkable Dandelion	Nat	1995	0
C036	<i>Taraxacum lacistophyllum</i>	Cut-leaved Dandelion	Nat	1996	0
C037	<i>Taraxacum landmarkii</i>	Landmark Dandelion	Nat	1976	0
C038	<i>Taraxacum laticordatum</i>	Decumbent Dandelion	Nat	1994	0
C039	<i>Taraxacum luteum</i>	Pure Yellow Dandelion	Nat	2022	1
C040	<i>Taraxacum maculosum</i>	Spotted Dandelion	Nat	1995	0
C041	<i>Taraxacum naevosiforme</i>	Wetland Dandelion	Nat	1977	0
C042	<i>Taraxacum naevosum</i>	Squat Dandelion	Nat	1977	0

C043	<i>Taraxacum nordstedtii</i>	Nordstedt's Dandelion	Nat	1995	0
C044	<i>Taraxacum oblongatum</i>	Oblong-leaved Dandelion	Nat	1996	0
C045	<i>Taraxacum pannulatiforme</i>	Tar-blotched Dandelion	Nat	1996	0
C046	<i>Taraxacum platyglossum</i>	Tongue-leaved Dandelion	Nat	2007	1
C047	<i>Taraxacum polyodon</i>	Common Dandelion	Nat	1996	0
C048	<i>Taraxacum proximiforme</i>	Straw-fruited Dandelion	Nat	1993	0
C049	<i>Taraxacum proximum</i>	Umber-fruited Dandelion	Nat	1996	0
C050	<i>Taraxacum pseudohamatum</i>	False Hook-lobed Dandelion	Nat	1994	0
C051	<i>Taraxacum richardsianum</i>	Richards' Dandelion	Nat	1997	0
C052	<i>Taraxacum sahalinianum</i>	Sahlin's Dandelion	Nat	1996	0
C053	<i>Taraxacum sellandii</i>	Selland's Dandelion	Nat	1995	0
C054	<i>Taraxacum spiculatum</i>	Sagittate-lobed Dandelion	Nat	1977	0
C055	<i>Taraxacum stenoglossum</i>	A Dandelion	Nat	1977	0
C056	<i>Taraxacum subbracteatum</i>	Dark-bracted Dandelion	Nat	1995	0
C057	<i>Taraxacum subcyanolepis</i>	Reddish-bracted Dandelion	Nat	1977	0
C058	<i>Taraxacum subhamatum</i>	Large Hook-lobed Dandelion	Nat	1996	0
C059	<i>Taraxacum subnaevosum</i>	Pale-bracted Dandelion	Nat	1995	0
C060	<i>Taraxacum unguilobum</i>	Claw-lobed Dandelion	Nat	1997	0
C061	<i>Hieracium cravoniense</i>	Craven Hawkweed	Nat	2022	1
C062	<i>Hieracium deganwyense</i>	A Hawkweed	Nat	2012	2
C063	<i>Hieracium duriceps</i>	Hard-headed Hawkweed	Nat	2000	1
C064	<i>Hieracium latobrigorum</i>	Yellow-styled Hawkweed	Nat	2022	5
C065	<i>Hieracium oxybeles</i>	Pointed-leaved Hawkweed	Nat	2016	1
C066	<i>Hieracium pictorum</i>	Picts Hawkweed	Nat	1993	0
C067	<i>Hieracium prenanthoides</i>	Rough-leaved Hawkweed	Nat	2021	1
C068	<i>Hieracium reayense</i>	Reay Hawkweed	Nat	1993	0
C069	<i>Hieracium reticulatiforme</i>	Reticulate-leaved Hawkweed	Nat	2007	2
C070	<i>Hieracium rubicundiforme</i>	Rubicund Hawkweed	Nat	1993	0
C071	<i>Hieracium salticola</i>	Bluish-leaved Hawkweed	Nat	1980	0
C072	<i>Hieracium saxorum</i>	Rock Hawkweed	Nat	2017	1
C073	<i>Hieracium strictiforme</i>	Strict Hawkweed	Nat	2010	2
C074	<i>Hieracium subcrocatum</i>	Dark-styled Hawkweed	Nat	1952	0
C075	<i>Hieracium subumbellatiforme</i>	Slender Hawkweed	Nat	1993	0

# REGISTER Part 1: taxa of conservation concern in Kincardineshire, excluding those considered extinct and the critical groups of Brambles, Dandelions and Hawkweeds.

## M001 *Diphasiastrum alpinum* (L.) Holub

Alpine Clubmoss

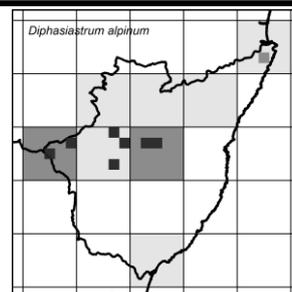
Local Origin Native

National Status -, -, -

Local Status LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/3

Earliest to Latest Record (or start and end of intervals) 1820 to 2022

Habitat Windswept summits, rocks and bare peat in upland areas.



**Commentary** Perennial, the stems creeping, the cones single on short erect branches, the leaves glaucous and tightly encasing the stem. Locally scarce, formerly more widely distributed but now restricted to upland areas, a large population grows at the summit of Mount Battock, other records being of very few plants. Elsewhere, widespread and frequent in upland areas including the mountains of Angus and South Aberdeenshire.

Location	Grid Ref	Year	Recorder / Reporter
Mount Battock, wind-blasted heath near summit	NO54938446	2018	Elston, D.
Strachan, above Water of Aven, under heather	NO58718741	2020	Elston, D.
Strachan, S of Bridge of Bogendreip	NO66008971	2012	Green, I.
Strachan, Kerloch, cleft in rock	NO697877	2016	Elston, D.
Glen Dye, heath by track below Hill of Gothie	NO66898246	2022	Elston, D.
Fetteresso Forest, Monluth Hill, heath by track	NO73138736	2021	Elston, D.
Fetteresso Forest, on track	NO75538600	2009	Green, I.
<hr/>			
Strachan	NO69	1820-1859	Stephen
Banchory [perhaps in NO69]	NO79	1820-1859	Brichan, J.
Maryculter Parish [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Nigg, base of cairns at 250 ft on hill about a mile from sea	NJ9503	1820-1859	Dickie, G.
Benholm [perhaps in NO77, NO86, NO87]	NO76	1820-1859	Stephen

## M002 *Selaginella selaginoides* (L.) P.Beauv.

Lesser Clubmoss

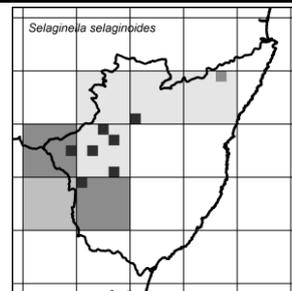
Local Origin Native

National Status -, -, -

Local Status LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2

Earliest to Latest Record (or start and end of intervals) 1820 to 2022

Habitat Sparsely vegetated flushes.



**Commentary** Perennial, the stems decumbent and inconspicuous, giving rise to short, erect, fertile branches, the leaves linear, pale, uniformly positioned around stems and branches. Locally scarce, apparently now restricted to small populations mainly in upland areas. Elsewhere widespread and frequent in upland areas including the whole of Scotland north of the Highland Boundary Fault apart from the eastern coastal plain.

Location	Grid Ref	Year	Recorder / Reporter
Glen Dye, flush by Water of Charr	NO60957985	2020	Elston, D.
Glen Dye, flush by Mid Grain of Badymicks	NO58088400	2019(2022)	Elston, D.
Glen Dye, flush on low ground below Hill of Duclash	NO63728582	2022	Elston, D.; Peaker, A.
Strachan, mire near Greendams	NO64198973	2020	Elston, D.
Strachan, marsh near Eslie, flush	NO71759198	2022	Elston, D.
Glen Dye, E of Heatheryhaugh, in flush	NO66738708	2020	Elston, D.
Glensaugh, NW slope of Loch Hill	NO67568032Ø	2011	Green, I.
<hr/>			
Fettercairn, wooded gorge of R North Esk	NO57SE	1982	Bayne, D.
Strachan (hectad)	NO69	1957	Sommerville, A.
Kingcausie, Corbie Den, upper part	NO89U	1820-1859	Dickie, G.

**M003 *Isoetes lacustris* L.**

Quillwort

Local Origin Native

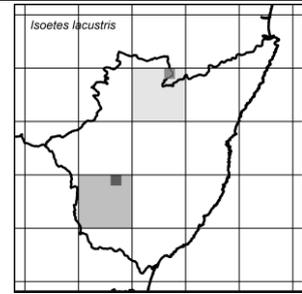
National Status -, -, -

Local Status NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0

Earliest to Latest Record (or start and end of intervals) 1820 to 1988

Habitat Oligotrophic lochs.

**Commentary** Tufted, perennial, submerged aquatic, the leaves in a basal rosette, moderately stiff, near-cylindrical, displaying four air-channels when broken in cross-section. Locally with no recent records, once well-established in Loch of Park, recently recorded only from Loch Saugh which may have become too enriched. Elsewhere widespread and frequent in upland areas where it is found in stony bottomed lochs surrounded by peat soils, the closest recent records are from Loch Lee (Angus) and Loch Kinnord (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Glensaugh, Loch Saugh	NO676788	1988	Gunn, I.; Holder, C.
Loch of Park	NO7798	1855	Beveridge, R.

**M004 *Ophioglossum azoricum* C.Presl**

Small Adder's-tongue

Local Origin Native

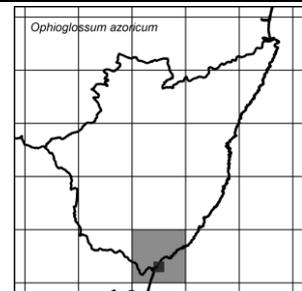
National Status -, NS, -

Local Status LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0

Earliest to Latest Record (or start and end of intervals) 2023 to 2023

Habitat Dunes slacks and wind-blasted coastal grassland.

**Commentary** Small perennial with elliptical sterile blades held horizontal or ascending, either solitary or in pairs, the majority of blades having an associated narrowly cylindrical fertile blade. Locally rare, first discovered in 2023. Elsewhere almost entirely coastal, mostly in the north and west, the closest known colonies being between a number of sites between Balmedie and Collieston (South and North Aberdeenshire) and Tentsmuir (Fife).



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus NNR, grassland by slack	NO74176325	2023	Elston, D.

**M005 *Botrychium lunaria* (L.) Sw.**

Moonwort

Local Origin Native

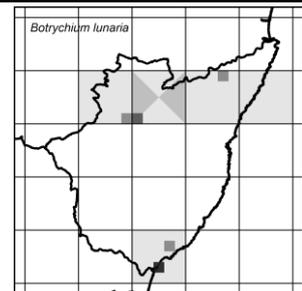
National Status -, -, -

Local Status LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0

Earliest to Latest Record (or start and end of intervals) 1820 to 2022

Habitat Short, unimproved grassland.

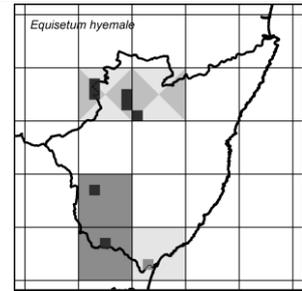
**Commentary** Small perennial, the short erect stem bearing a single, broad, pinnately lobed sterile leaf and a single, taller, branched fertile leaf bearing clusters of spherical sporangia. Locally rare, once widely distributed but long lost from most former sites, feared lost until rediscovered at St Cyrus NNR. Elsewhere it is widespread and frequent in upland areas but has apparently disappeared from much of lowland Scotland, the closest recent records being from Sidlaw Hills and Glen Clova (Angus), also Glen Tanar, Garlogie and Brimmond Hill (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus NNR, dune grassland	NO74436342	2022	Elston, D., Alampo, T. et al.
Strachan, grazed heather on Garrol Hill	NO719911	1992	Welch, D.
Strachan, Pitreadie	NO69V	1820-1859	Stephen
Banchory, natural pastures [perhaps in NO69]	NO79	1820-1859	Brichan, J.
Kingcausie, Corbie Den, upper end	NO8698	1820-1859	Dickie, G.
Maryculter Parish, dry pastures [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Banchory-Devenick Parish [perhaps in NJ90]	NO99	1880-1919	Trail, J.

**M006 *Equisetum hyemale* L.****Rough Horsetail****Local Origin** Native**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/4**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Flushes, marshes and riversides.

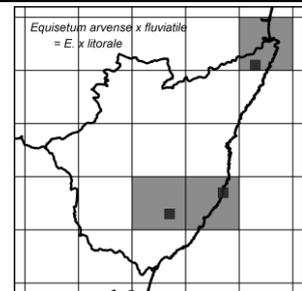
**Commentary** Stand-forming, rhizomatous perennial, the stems unbranched, winter-green and rough to the touch, the upper part of each stem section with contrasting black and white rings, the teeth fine, soon falling. Locally scarce, by or close to the rivers Dee, Feugh or North Esk excepting one site above Fettercairn. Elsewhere widespread but generally infrequent in upland and lowland areas, with a cluster of records in the hills of Angus, East Perthshire and North Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Woodend, wet ground near R Dee	NO62919618	2023	Elston, D.
Blackhall, marsh by stream bounding VC92	NO63759534	2021	Elston, D.
Banchory, N bank of R Dee	NO697952	2011	Welch, D.
Strachan, marsh in Blackness den	NO69629320	2021	Welch, D.
Strachan, marsh near Eslie	NO71759197	2022	Elston, D.
Fettercairn, flush below Brunt Hill	NO62617679	2021	Elston, D.
Marykirk, by R North Esk	NO65346616	2011(2022)	Green, P.
<i>Park</i>	<i>NO79</i>	<i>1849</i>	
<i>St Cyrus, at North Water Bridge by R Esk</i>	<i>NO7262</i>	<i>1958</i>	<i>Duncan, U.</i>

**M007 *Equisetum arvense x fluviatile* = *E. x litorale* Kühlew. ex Rupr.****A Hybrid Horsetail****Local Origin** Native x Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2000 to 2021**Habitat** Marshes.

**Commentary** Rhizomatous stand-forming perennial, the stems erect and compressible due to large central hollow, branches in whorls but stopping far short of stem tip. Locally rare, with large stands by Loirston Loch and on a road verge at Garvock. Elsewhere this is the most commonly recorded hybrid horsetail, widespread but infrequent throughout Britain with recent records from Duns Dish and several other sites in Angus.



Location	Grid Ref	Year	Recorder / Reporter
Loirston Loch, marsh to S	NJ93680088	2020	Elston, D.
Catterline, soak at base of cliffs	NO86977796	2020	Elston, D.
Garvock, roadside at Sheriff's Kettle	NO77957233	2021	Elston, D.

**M008 *Equisetum pratense* Ehrh.**

Shady Horsetail

Local Origin Native

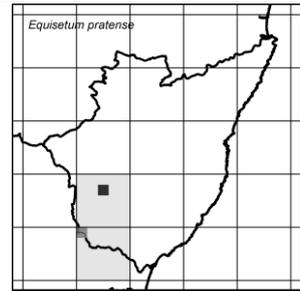
National Status -, -, -

Local Status LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0

Earliest to Latest Record (or start and end of intervals) 1820 to 2021

Habitat Damp, sheltered places.

**Commentary** Rather delicate, patch-forming, rhizomatous, perennial, the stems erect with smooth ridges and many teeth at the internodes, the branches not further divided, slender, in whorls and often swept to one side towards the top. Locally rare, rediscovered in 2021 in the hills above Fettercairn in which parish it was recorded long ago. Elsewhere widespread and often frequent in or near high ground in northern England and Scotland, with recent records from upper Deeside (South Aberdeenshire), also upper Glen Esk and Den of Airlie (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, S bank of Garrol Burn	NO64817740	2021	Elston, D.
Fettercairn, abundant on opposite side of Esk	NO66E	1820-1859	Croall, A.
Fettercairn Parish, damp shady places near the burn	NO67	1820-1859	Croall, A.

**M009 *Cryptogramma crispa* (L.) R.Br. ex Hook.**

Parsley Fern

Local Origin Native

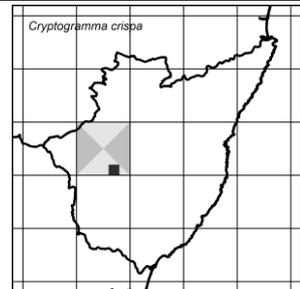
National Status -, -, -

Local Status LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/3

Earliest to Latest Record (or start and end of intervals) 1930 to 2023

Habitat Acid rocks and scree.

**Commentary** Tufted perennial, the leaves all basal and deeply divided usually thrice-pinnately, the flat laminae of the sterile leaves differing markedly from the narrowly cylindrical ultimate segments of the fertile leaves. Locally rare and only known from the rocky ravine by the Slack Burn, Glensaugh. Elsewhere widespread and frequent in upland areas with acid rocks, the closest recent records coming from upper Glen Esk and Glen Clova (Angus), also the Correen Hills (South Aberdeenshire) and Hill of Foudland (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Glensaugh, rocks by Slack Burn	NO67208052	2023	Elston, D.

**M010 *Cystopteris dickieana* R.Sim**

Dickie's Bladder-fern

Local Origin Native

National Status VU, NR, SBL

Local Status LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1

Earliest to Latest Record (or start and end of intervals) 1820 to 2022

Habitat Sea caves.

**Commentary** Small, tufted perennial, the leaves twice-pinnate with wavy-edged pinnules, the laminae flat, rounded and overlapping, the spore surface rugose not spiny. Locally rare and only known from near Cove Bay, the type locality for this species where it was discovered by Prof William Knight. Elsewhere once considered restricted to Kincardineshire, now recorded from a scattering of sites north of the Highland Boundary Fault. There is debate about whether *C. dickieana* should continue to be recognised at species level.



Location	Grid Ref	Year	Recorder / Reporter
Cove Bay, sea caves here and nearby	NJ95440062	2022	Norton, T.
Cove Bay, dripping cave half mile N	NJ9502	1845-1859	Dickie, G.
Downies, Greg Ness, rocky overhang by a small rill	NJ9704	1856	Barter, C.

**M011 *Asplenium ceterach* L.**

Rustyback

Local Origin Native?

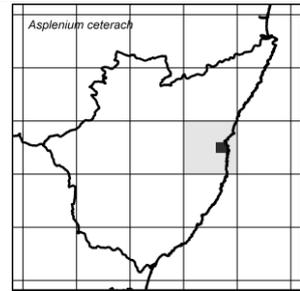
National Status -, -, -

Local Status LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1

Earliest to Latest Record (or start and end of intervals) 1950 to 2023

Habitat Rocks and walls.

**Commentary** Small, tufted perennial, the leaves once-pinnate with rounded pinnules that are deep green above but covered in rusty-coloured scales below. Locally rare, only recorded from the walls of Dunnottar Kirkyard and Manse where it may have been introduced. Elsewhere widespread and frequent in the south-west, becoming increasingly scarce in the north and east, with recent records from only 3 sites in Angus, none in South Aberdeenshire and one in North Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Stonehaven, wall of kirkyard	NO86228520	2020(2023)	Welch, D.

**M012 *Polystichum setiferum* (Forssk.) T.Moore ex Woynt.**

Soft Shield-fern

Local Origin Native

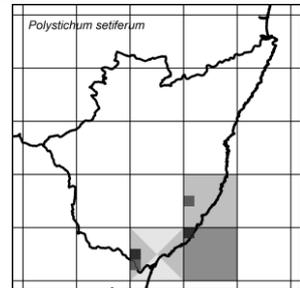
National Status -, -, -

Local Status LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2

Earliest to Latest Record (or start and end of intervals) 1947 to 2021

Habitat Wooded dens.

**Commentary** Medium-sized tufted perennial, the fronds twice to thrice divided, the basal pinnae are close to the longest and the ultimate pinnules bear sharp points. Locally rare, the largest known population being in Den of Morphie. Elsewhere a southern species with few, widely scattered sites north of a line from North Berwick to Fort William, the closest recent records being from Blairgowrie (East Perthshire) and by the River Tay opposite Caputh (Mid Perthshire).



Location	Grid Ref	Year	Recorder / Reporter
Den of Morphie, shaded banks near road bridge	NO70766448	2021	Elston, D.
Morphie, woodland on steep bank by R North Esk	NO717621	1999	Welch, D.
Arbuthnott, gorge in Old Red Sandstone	NO802742	1999	Welch, D.

**M013 *Dryopteris oreades* Fomin**

Mountain Male-fern

Local Origin Native

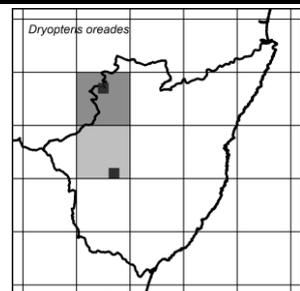
National Status -, -, -

Local Status LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0

Earliest to Latest Record (or start and end of intervals) 1987 to 2023

Habitat Rocky places on high ground.

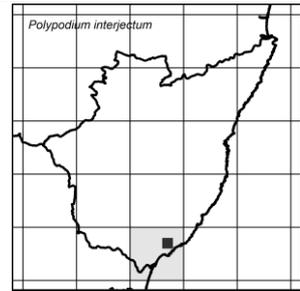
**Commentary** Large, perennial, the rhizome branched so leaf-tufts occur in groups, the leaves twice-pinnate, the pinnules with teeth fanning out at the tips, with few sori per pinnule and some glands. Locally rare, only recorded from the Slack of Birnie at Glensaugh. Elsewhere widespread and sometimes frequent in upland areas, including the sweep of hills from Glenshee (East Perthshire) to upper Glen Esk (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Glensaugh, Slack of Birnie, rock face	NO66958082	2022	Elston, D.
Woodend, Cairnton, stone embankment at water intake	NO64489635	2023	Elston, D.
Hill of Garvock, cliff of disused quarry	NO736703	2022	Elston, D.

**M014 *Polypodium interjectum* Shivas****Intermediate Polypody****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1961 to 2020**Habitat** Damp, shady dens.

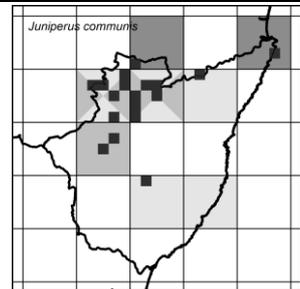
**Commentary** Rhizomatous perennial forming large colonies, the leaves long, pinnately divided, the pinnae longest in mid-leaf, the sori oval in outline. Locally rare, only recorded from Den Finella where it grows in some abundance. Elsewhere widespread and frequent particularly in the south and west, recorded recently in Montrose and Glen Clova (Angus) but never recorded in the lowlands between Den Finella and Inverness.



Location	Grid Ref	Year	Recorder / Reporter
Den Finella	NO772663	2011(2020)	Green, I.

**M015 *Juniperus communis* L.****Juniper****Local Origin** Native**National Status** -, -, SBL**Local Status** LO; 11+ Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 7/15/17**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Upland heaths and heathy woods.

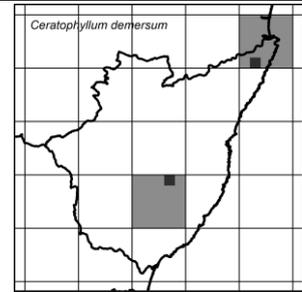
**Commentary** Berry-bearing evergreen shrub, the leaves grey-green, narrowly linear and pointed, the berries green then pruinose-black. Locally occasional, widely distributed, growing as an erect bush in the lowlands but prostrate in the uplands. Elsewhere widespread and mostly frequent in upland areas, rather local and declining lowland areas.



Location	Grid Ref	Year	Recorder / Reporter
<b>SAMPLE</b>			
Altens, cliff top, heathy grassland	NJ96390249	2022	Brendish, J.
Durris, Funach Wood, heathland to NW of Crathes Castle, rock outcrop in policies	NO75369515	2020	Elston, D.; Cox, J.
Woodend, woodland edge	NO7309670	2017	Espie, A.
Hirn, Berry Hill, N bank of burn	NO632696080	2012	Green, I.
Raemoir, wide roadside with scrub	NJ71550086	2009	Green, I.
Blackhall, Hill of Goauch	NO687993	2015	Welch, D.
Tilquhillie, grassland by Glack`s Well	NO662942	2021	Begbie, R.
Glen Dye, roadside	NO71559369	2018	Elston, D.; Cox, J.
Auchenblae, NE of	NO645846	2015	Welch, D.
	NO733179160	2009	MacDonald, T.

**M016 *Ceratophyllum demersum* L.****Rigid Hornwort****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2018 to 2023**Habitat** Ponds and lochs.

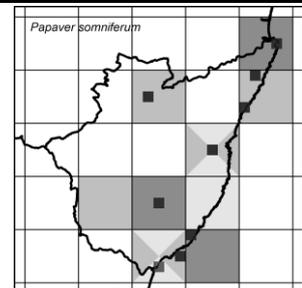
**Commentary** Small, perennial aquatic, submerged but not rooting, the branches in whorls, curved upwards and retaining their shape when lifted out of water, the flowers and fruit inconspicuous. Locally rare, a recent colonist, probably enabled by rising mean temperatures and the eutrophication of Loirston Loch where it was found first. Elsewhere widespread and frequent away from the north and west, known from very few sites north of Dundee the closest recent records being from Burreldale Moss and near Alford (South Aberdeenshire), Haddo (North Aberdeenshire), Balgavies Loch and Auchintaple Loch (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Loirston Loch	NJ936009	2021	Green, I.
Glenbervie, eutrophic pond W of Mains of Mondyne	NO763793	2023	Elston, D.

**M017 *Papaver somniferum* L.****Opium Poppy****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 6/6/5**Earliest to Latest Record (or start and end of intervals)** 1948 to 2019**Habitat** Disturbed ground in the proximity of human activity.

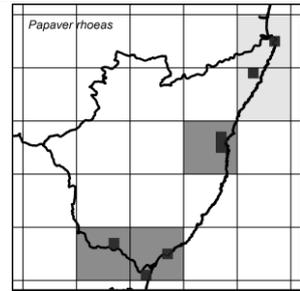
**Commentary** Large, erect annual, the leaves glaucous, clasping the stems, upwardly inclined with dentate margins, the buds drooping but becoming erect as the flowers open, the petals large and variously coloured, the seed capsule smooth and spherical. Locally scarce, not recorded prior to 1950, still only recorded from rather few sites but widely spread in the lowlands. Elsewhere widespread and mostly frequent in lowland areas, in Scotland mostly eastern and frequent in the coastal plain as far north as Golspie (East Sutherland).



Location	Grid Ref	Year	Recorder / Reporter
Tilquhillie, Knappach	NO729952	2006	Green, I.; Watson, A.
Torry, disturbed bank at car-park	NJ960055	2008	Welch, D.
Marywell, Turnamiddle	NO92199970Ø	2004	Waddell, J.
Newtonhill (tetrad)	NO99B	2019	Welch, D.
Kirktown of Fetteresso, Kirkyard	NO85308565Ø	2014	Green, I.
Haughs of Benholm	NO81366877Ø	2011	Green, I.
Mathers, by coast	NO78066599Ø	2010	Green, I.
Marywell, SE of	NO9398	1988	Birse, E.L.; Birse, E.M.
St Cyrus NNR	NO7463	1974	Perring, F.
Fettercairn (hectad)	NO67	1987-1999	
Inverbervie (hectad)	NO87	1950-1969	

**M018 *Papaver rhoeas* L.****Common Poppy****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/6/6**Earliest to Latest Record (or start and end of intervals)** 1880 to 2020**Habitat** Disturbed ground, including ploughed land.

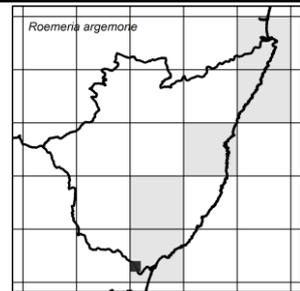
**Commentary** Erect annual, the leaves finely dissected and hairy, the buds drooping, becoming erect as the flower opens with large, overlapping, red petals maturing to form almost spherical, smooth seed capsules. Locally scarce, becoming more widely recorded and recently included in 'wild-flower' seed mixes. Elsewhere widespread and mostly frequent in lowland areas, in Scotland most frequent in the east and across the Central Belt.



Location	Grid Ref	Year	Recorder / Reporter
Nigg, Girdle Ness	NJ96910542Ø	2019	Loizou, T.
Marywell, Turnamiddle	NO922995	2004	Waddell, J.; Duthie, K.; Sharp, C.
Stonehaven, outside allotments	NO8786	2019	Marriott, R.
Dunnottar, by cliff path from Stonehaven to castle	NO87768477	2019	Elston, D.
Balmakewan, farmyard	NO66596635	2019	Elston, D.
Morphie, arable strip unsown in year	NO720619	2015	Welch, D.
St Cyrus, weedy field near Tangleha`	NO77166519	2020	Elston, D.; Cox, J.

**M019 *Roemeria argemone* (L.) C.Morales, R.Mend. & Romero García****Prickly Poppy****Local Origin** Archaeophyte**National Status** VU, -, SBL**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2016**Habitat** Disturbed ground, arable fields.

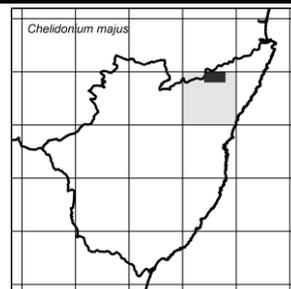
**Commentary** Erect annual, the leaves hairy and finely divided, the buds drooping and becoming erect when the flowers open, the petals not contiguous, mostly red but black towards the centre, the seed capsules cylindrical with bristly hairs. Locally rare, the only recent records are of small numbers of flowers by the Stone of Morphie, once much more widely distributed. Elsewhere widespread and moderately frequent in central and eastern England, in Scotland with small clusters of sites around Elgin (Moray) and lowland Angus of which the closest recent record is from near Arbroath.



Location	Grid Ref	Year	Recorder / Reporter
Morphie, waste ground by Stone of Morphie	NO716627	2016	Daly, R.
St Cyrus, present about	NO76	1880-1919	Trail, J.
Auchenblae (hectad)	NO77	1950-1960	Sommerville, A.
Dunnottar	NO88	1820-1859	Stephen
Banchory-Devenick Parish [perhaps in NJ90]	NO99	1880-1919	Trail, J.
Nigg Parish	NJ90	1880-1919	Trail, J.

**M020 *Chelidonium majus* L.****Greater Celandine****Local Origin** Archaeophyte**National Status** -, -, SBL**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/2/2**Earliest to Latest Record (or start and end of intervals)** 1950 to 2018**Habitat** Locally rare.

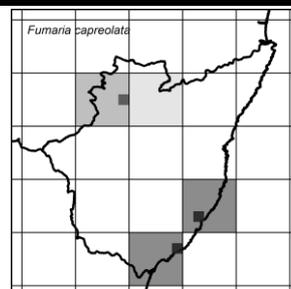
**Commentary** Tufted perennial, the leaves pinnately divided with broad, lobed, rugose segments, the petals large and yellow, the seed pods narrow, linear, held vertically. Not recorded prior to 1950, and potentially a deliberate introduction to at least one of its sites. Elsewhere widespread and frequent in lowland England and Wales, local in Scotland excepting substantial clusters of sites around Dundee (Angus) and Elgin (Moray), the closest recent records are from Haystone Hill (Angus) and Pitcaple (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Maryculter, Templars' Kirk graveyard	NO84439998	2018	Welch, D.
Kingcausie, Corbie Den, trackside in plantation	NO8698	2006	Welch, D.

**M021 *Fumaria capreolata* L.****White Ramping-fumitory****Local Origin** Native**National Status** -, -, SBL**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2005**Habitat** Disturbed ground.

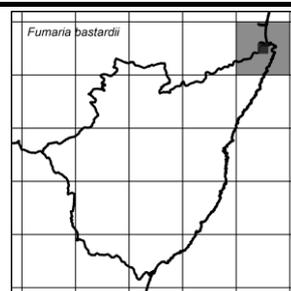
**Commentary** Sprawling annual, the stems weak and barely self-supporting, the leaves pinnately divided with palmate laminae, the inflorescence loosely cylindrical, with short-stalked flowers mostly white but dark-tipped, the whole changing angle abruptly to hang downwards as they mature. Locally not recorded until 1997, since then found at scattered lowland sites strongly influenced by human activity. Elsewhere widespread and frequent near the coast, infrequent elsewhere particularly western Scotland, with two recent records from Angus (Stracathro and Kinpurnie Castle) and about ten from North Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Johnshaven, unmanaged ground at shore	NO793667	2005	Welch, D.
Inverbervie, garden at roadside	NO832724	2005	Welch, D.
Banchory, tipped earth	NO697954	1997	Welch, D.
<i>Crathes</i>	NO79	1820-1859	Adams

**M022 *Fumaria bastardii* Boreau****Tall Ramping-fumitory****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2015 to 2015**Habitat** Disturbed ground, arable fields.

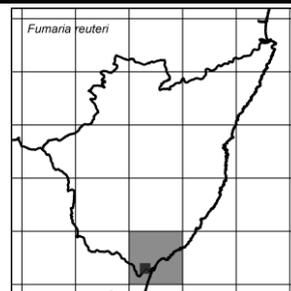
**Commentary** Sprawling annual, the stems weak and barely self-supporting, the leaves pinnately divided with palmate laminae, the inflorescence loosely cylindrical, the flowers with small pink petals and small but strongly toothed sepals. Locally only once recorded. Elsewhere widespread in coastal areas, most frequent in the south-west, in Scotland frequent only in the Central Belt, Western Isles and Orkney, with single recent records from Angus (Edzell) and two from South Aberdeenshire (Echt and Lyne of Skene).



Location	Grid Ref	Year	Recorder / Reporter
Tullos, wild garden at primary school	NJ954045	2015	Meek, E.

**M023 *Fumaria reuteri* Boiss.****Martin's Ramping-fumitory****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2000 to 2016**Habitat** Disturbed ground by the coast.

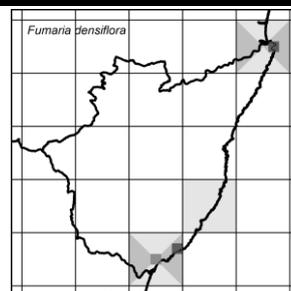
**Commentary** Sprawling annual, the stems weak and barely self-supporting, the leaves pinnately divided with palmate laminae, the inflorescence loosely cylindrical, the flowers large with a pale pink background and darker tip, the sepals small and almost entire. Discovered nearly synchronously in Kincardineshire, Angus and East Perthshire as a major northwards extension of its range which is concentrated in the south of England.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, edge of potato crop	NO73046284	2016	Welch, D.

**M024 *Fumaria densiflora* DC.****Dense-flowered Fumitory****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1880 to 1998**Habitat** Disturbed ground.

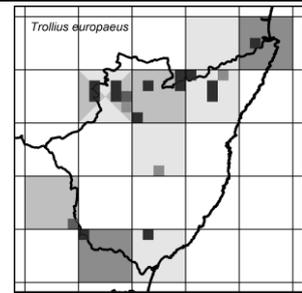
**Commentary** Sprawling annual, the stems weak and barely self-supporting, the leaves pinnately divided with palmate laminae, the inflorescence loosely cylindrical, the flowers small but numerous with a pale pink background and darker tip, the sepals broad, wider than the corollas and often persistent when in fruit. Locally with no recent records, seemingly restricted to ground with human disturbance. Elsewhere local, most widespread and frequent in southern England, otherwise with recent records from numerous sites between Bamburgh (North Northumberland) and Edzell (Angus), also in Moray from Fochabers westwards to Forres.



Location	Grid Ref	Year	Recorder / Reporter
Nigg Bay, waste ground	NJ9604	1998	Welch, D.
Johnshaven, waste place	NO798671	1998	Welch, D.
<i>Inverbervie (hectad)</i>	NO87	1950-1960	
<i>St Cyrus, village</i>	NO749648	1946	Graham, R.

**M025 *Trollius europaeus* L.****Globeflower****Local Origin** Native**National Status** -, -, -**Local Status** LS; 9 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/9/10**Earliest to Latest Record (or start and end of intervals)** 1817 to 2023**Habitat** Moist, neutral grassland.

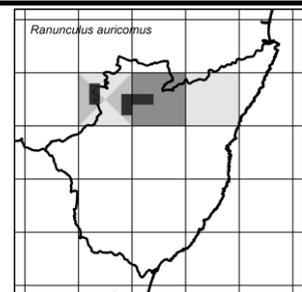
**Commentary** Tufted perennial, the leaves palmate and rather glossy above, the flowers borne singly on erect stems, the petals pale yellow, curved to form a spherical shell. Locally scarce, most frequent by the River Dee, where some populations may only persist through an influx of seed from upstream. Elsewhere widespread and frequent in hilly regions of the north and west, including strong populations in Glen Esk (Angus) and Deeside (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Woodend, grassland by R Dee	NO632959	2014(2023)	Welch, D.
Blackhall, Glenbogle, rocks by R Dee	NO66109575	2020	Elston, D.; Cox, J.
Strachan, marsh near Eslie	NO718919	2022	Elston, D.
Milton of Crathes, vegetated shingle island	NO72709617	2023	Elston, D.; Cox, J.
Durris, by R Dee below Park Bridge	NO799985	2007(2021)	Welch, D.
Kincorth, mature shingle island by R Dee	NJ93250411	2020	Elston, D.
Netherley, Red Moss	NO85369447Ø	2006	Roberts, G.
Garvock Hill, mesotrophic marsh	NO728691	2021	Elston, D.; Peaker, A.; Blow, C.
Fettercairn, woodland by R North Esk opposite Edzell	NO603692	2002	Welch, D.
Inchmarlo, by R Dee	NO674964	1977	Welch, D.
Banchory, by R Dee beside Golf Course	NO685957	1997	Welch, D.
Strachan, at Blackness	NO69W	1820-1859	Stephen
Maryculter Parish [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Kingcausie, Corbie Den	NO89U	1820-1859	Dickie, G.
Kingcausie, Blairs (hectad)	NJ80	1964	
Glenbervie, Burn of Guinea	NO7481	1951	Gardiner, J.

**M026 *Ranunculus auricomus* L.****Goldilocks Buttercup****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/4**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Damp soils in old woodland, avoiding acid ground.

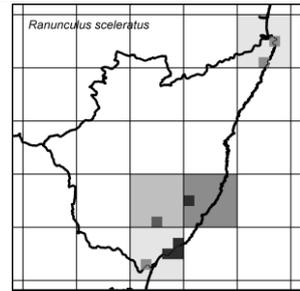
**Commentary** Erect perennial, the basal leaves are stalked and deeply lobed with broad laminae and so contrast with stem leaves which are unstalked, palmate with linear segments, the flowers with yellow petals of such irregular sizes they appear damaged. Locally scarce, only found between Banchory and Strachan. Elsewhere widespread and generally frequent as far north as Perthshire, with recent records from near Edzell, Lunan Bay and the River South Esk (Angus), also from near Aboyne and Brimmond Hill (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Woodend, by R Dee, north bank	NO63189597	2023	Elston, D.
Banchory, grassland by R Dee	NO699952	2011	Welch, D.
Strachan, Blackness, roadside	NO696931	2021	Welch, D.
Tilquhillie, roadside	NO721946	2020	Welch, D.
Tilquhillie, roadside	NO711947	2019	Welch, D.
Kingcausie, Corbie Den	NO89	1820-1859	Dickie, G.

**M027 *Ranunculus sceleratus* L.****Celery-leaved Buttercup****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 6/10/11**Earliest to Latest Record (or start and end of intervals)** 1820 to 2019**Habitat** Damp mud, particularly trampled ground.

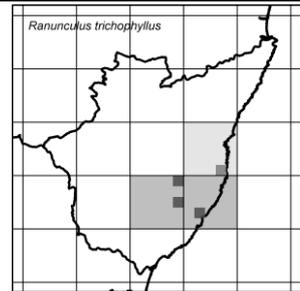
**Commentary** Annual with all leaves glossy, the basal leaves palmately lobed, the upper leaves broadly linear and toothed, the flowers with yellow petals below a characteristic, elongated head of achenes. Locally rare, much the largest population is by a coastal pool at Mathers. Elsewhere generally widespread and frequent in lowland areas, mostly coastal in Scotland away from the Central Belt, the closest recent records being from near Montrose and Murton (Angus), also Donmouth and Corby Loch (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Mathers, Milton of, trampled & bare dried-up pool	NO77766585	2019	Elston, D.
Arbuthnott, pool in grazed field by Bervie Water	NO80157441	2018	Elston, D.
Garvock, marsh by St James' Lochs	NO743711	1996	Francis, I.
<i>St Cyrus, marshes near mouth of R Esk</i>	NO7362	1820-1859	Stephen
<i>Cove Bay</i>	NJ90K	1820-1859	Dickie, G.
<i>Nigg Bay, near</i>	NJ964046	1964	Wenham, M.

**M028 *Ranunculus trichophyllus* Chaix****Thread-leaved Water-crowfoot****Local Origin** Native**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1903 to 1981**Habitat** Open ground on the margins of ponds and streams.

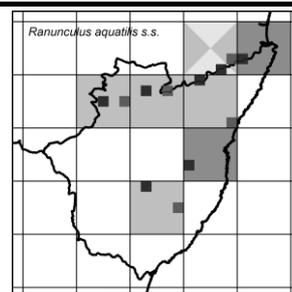
**Commentary** Annual or perennial aquatic, small, stems procumbent and branching, the leaves short, much-divided with stiff and thread-like ultimate segments, the flowers with short, white, non-contiguous petals. Locally with no recent records, not recorded since the Bervie Water was surveyed in 1981. Elsewhere widespread and frequent in the south and east, becoming more coastal in the north, it seems to have disappeared from many sites in eastern Scotland in line with the trend in Kincardineshire, the closest recent records are from St Combs (North Aberdeenshire) and Tentsmuir (Fife).



Location	Grid Ref	Year	Recorder / Reporter
Arbuthnott, in Bervie Water, +/- 2.5km from Grid Ref	NO782748Ø	1981	Holmes, N.
Glenbervie, Bervie Water, +/-2.5km lengths of Grid Ref	NO782797Ø	1981	Holmes, N.
Inverbervie, in Bervie Water, +/- 2.5km from Grid Ref	NO824735Ø	1981	Holmes, N.
<i>Catterline, in burn above Mill of Uras</i>	NO8680	1903	Trail, J.

**M029 *Ranunculus aquatilis* L.****Common Water-crowfoot****Local Origin** Native**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 7/7/7**Earliest to Latest Record (or start and end of intervals)** 1916 to 2019**Habitat** Rivers and streams.

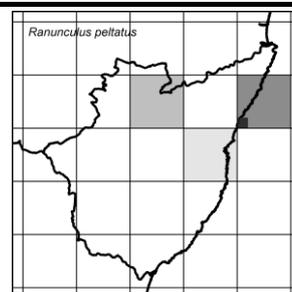
**Commentary** Perennial aquatic, the stems much branched, underwater capillary leaves always present and sometimes with floating laminar leaves, the former divided five or six times, the flowers with short white petals and a hairy receptacle (strip achenes back to see this). Locally scarce and mostly in the River Dee where the fishermen consider it a weed. Elsewhere widespread and frequent in the lowlands but absent from much of central and north-west Scotland, recorded recently from 13 tetrads in Angus but from none and one from South and North Aberdeenshire respectively.



Location	Grid Ref	Year	Recorder / Reporter
Auchenblae, in Luther Water	NO723790	2009	Welch, D.
Drumlithie, NE of, woodland by very eutrophic reservoir	NO8082	2019	Elston, D.
Banchory-Devenick, in R Dee	NJ9002	2007	Welch, D.
Kingcausie Island, in main R Dee	NJ8601	2005	Welch, D.
Maryculter, Tilbouries, in R Dee	NO8398	2003	Welch, D.
Blackhall, Glenbogle, in R Dee	NO6595	2001	Welch, D.
Tilquhillie, in R Dee at Birkenbaud	NO7296	2003	Welch, D.
Arbuthnott, in Bervie Water, +/- 2.5km from Grid Ref	NO782748Ø	1981	Holmes, N.
Muchalls, mud by small lake	NO896901	1995	Welch, D.
Ardoe, backwater of R Dee	NJ896022	1996	Welch, D.
Kirkton of Durriss, mud by R Dee	NO773966	1995	Welch, D.
Banchory, to W by R Dee	NO684957	1997	Welch, D.

**M030 *Ranunculus peltatus* Schrank****Pond Water-crowfoot****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1841 to 2019**Habitat** Streams and rivers.

**Commentary** Annual or perennial aquatic, the stems branched, always with underwater capillary leaves and sometimes with floating laminar leaves, the former divided five or six times, the flowers with long white petals and hairy receptacles (need to strip off achenes to see this). Locally rare, with one established site at Muchalls and an older record for Loch of Park. Elsewhere widespread and rather frequent in much of lowland Britain but absent from much of central and north-west Scotland, recorded recently from four tetrads in Angus and from three tetrads in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Mill of Muchalls, pool above waterfall	NO901912	2019	Peaker, A.
Loch of Park	NO79	-1992	Watt, G.
Stonehaven, Mill Dam on the south side of	NO88	1841	Bailey, Charles

**M031 *Ranunculus penicillatus* (Dumort.) Bab.**

Stream Water-crowfoot

Local Origin Native

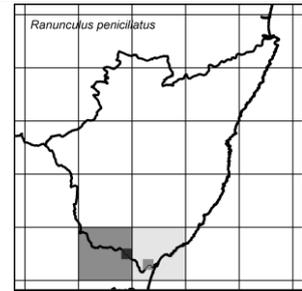
National Status -, -, -

Local Status LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1

Earliest to Latest Record (or start and end of intervals) 1959 to 2021

Habitat Clean rivers and streams.

**Commentary** Mat-forming perennial, the stems long and floating, only underwater capillary leaves present and divided six or more times from stem to tip, the petals large, white, with pear-shaped nectaries, the surface of the receptacle after stripping off the achenes is hairy. Locally only known from the River North Esk where it is plentiful, these constituting the most northerly recent records. Elsewhere widespread but often infrequent in lowland areas and very infrequent north of the Highland Boundary Fault, the closest recent records being near Dundee (Angus) and near Alyth (East Perthshire).



Location	Grid Ref	Year	Recorder / Reporter
Marykirk, in N. Esk	NO6865	2021	Lansdown R.; Elston, D.
St Cyrus, R. Esk near North Water Bridge	NO7262	1959	Duncan, U.

**M032 *Thalictrum minus* L.**

Lesser Meadow-rue

Local Origin Native

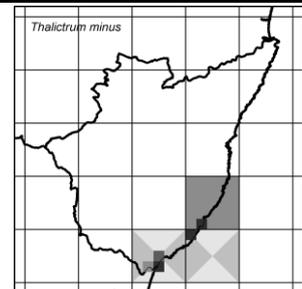
National Status -, -, -

Local Status LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/3

Earliest to Latest Record (or start and end of intervals) 1820 to 2017

Habitat Coastal, bare sands or dune grassland.

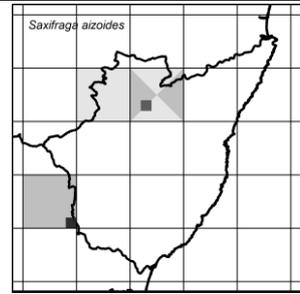
**Commentary** Rhizomatous, diffuse-looking perennial, the stems erect, the leaves twice pinnate with toothed, grey-green laminae, the inflorescence repeatedly branched, the flowers with inconspicuous petals but long and conspicuous yellow anthers. Locally rare, in line with very limited distribution of its habitat, but with substantial populations where it occurs. Elsewhere widely distributed and frequent as a coastal plant, also found in clusters of sites inland including in Perthshire, with recent records from 15 and 9 tetrads in coastal Angus and South Aberdeenshire respectively.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus NNR	NO7463	2015	Meek, E.
Benholm, trackside at coast	NO810682	2014	Welch, D.
Gourdon, coast	NO87F	2017	Elston, D.; Cox, J.
St Cyrus, steep rocky grassland	NO756647	1996	Welch, D.
St Cyrus, S from Kirkside	NO76G	1820-1859	Stephen

**M033 *Saxifraga aizoides* L.****Yellow Saxifrage****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Base rich flushes.

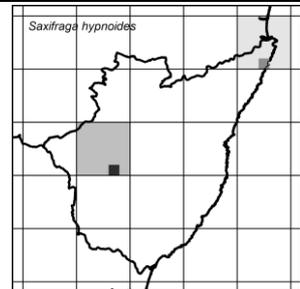
**Commentary** Short, tufted perennial, the stems short, the leaves linear pointing in all directions round the stems, the flowers have narrow, bright yellow petals with an orange dot at the base, with shorter green sepals visible in the gaps. Locally rare, only known now from rocks by River North Esk, a substantial colony probably derived from populations upstream in Angus. Elsewhere, widespread and frequent in north-west England and upland Scotland north of the Central Belt, including hill areas of Angus and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, The Burn, on rocks by River North Esk	NO59937107	2023	Brendish, J.
Tilquhillie, flush in moorland [extinct by 1977]	NO725936	1950-1960	Sommerville, A.
Strachan to Inchmarlo (hectad)	NO69	1957	Sommerville, A.

**M034 *Saxifraga hypnoides* L.****Mossy Saxifrage****Local Origin** Native**National Status** VU, -, SBL**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1859 to 2000**Habitat** Upland flushes.

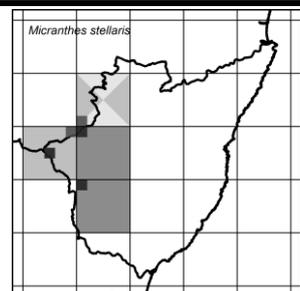
**Commentary** Stoloniferous, patch-forming perennial, the leaves unstalked with three-pronged tips, the stems short, erect, the flowers with white, round-tipped petals. Locally rare, only one recent record, possibly introduced during the establishment of red deer farming at Glensaugh. Elsewhere generally widespread and frequent in upland areas, otherwise local, the closest sites being Coyles of Muick (South Aberdeenshire) and Glen Clova (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Glensaugh, Slack of Birnie, flush ABOVE gorge	NO676802	2000	Woodward, E.
Cove Bay, coast near (an escape)	NJ90K	1880-1919	Trail, J.
Cove Bay, coast	NJ90K	1859	

**M035 *Micranthes stellaris* (L.) Galasso, Banfi & Soldano****Starry Saxifrage****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1950 to 2020**Habitat** Flushes and stream-sides in the hills.

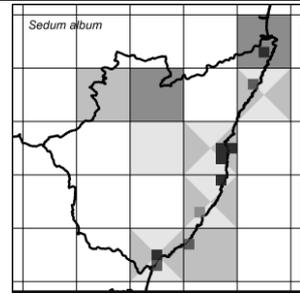
**Commentary** Small, tufted perennial, the leaves in a basal rosette, unstalked and toothed, the stems erect and holding a compact inflorescence of flowers with five pointed, white petals. Locally rare, known populations are most numerous in the Water of Avon catchment. Elsewhere, widespread and frequent in hill areas including in Angus and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Glen Dye, moorland stream at Whig`s Meadow	NO606783	2020	Routledge, G.
Mount Battock, north-facing flush	NO55798513	2019	Elston, D.
Strachan, ditch by Water of Aven	NO61018956	2019	Elston, D.
Strachan, Water of Avon, acid flush	NO599885	1991	Birse, E.L.; Birse, E.M.

**M036 *Sedum album* L.****White Stonecrop****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/3/3**Earliest to Latest Record (or start and end of intervals)** 1820 to 2020**Habitat** Thin, summer-droughted soils.

**Commentary** Short perennial, forming tufts or small mats, the stems erect, clothed in small, rounded, fleshy leaves and over-topped by a much-branched but rather compact head of white flowers. Locally scarce, mostly coastal. Elsewhere widespread and frequent in England and Wales, in Scotland mostly coastal and predominantly in the east, with recent records from 9 and 5 tetrads in Angus and South Aberdeenshire respectively.



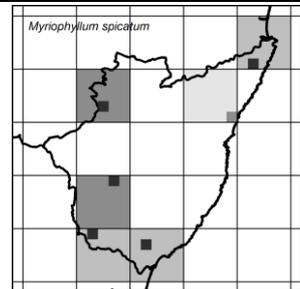
Location	Grid Ref	Year	Recorder / Reporter
Tullos, edge of pavement	NJ950036	2020	Green, I.
Stonehaven, shingle at mouth of River Carron	NO875857	2016	Meek, E.
Dunnottar, Old Hall Bay	NO8783	2019	Elston, D.
Catterline, cliffs	NO87187836	2020	Elston, D.
St Cyrus NNR	NO749643	2004	Waddell, J.; Ross, A.
Banchory+Scolty [nr Auchattie]+Strachan	NO69	1988	Smith, P.
Portlethen, coast in small bay	NO935966	1998	Welch, D.
Johnshaven, coast	NO8067	1997	Welch, D.
Portlethen, low wall of stones and earth near Station	NO9296	1880-1919	Trail, J.
Inverbervie, on thatched house roofs E of Market Cross	NO8372	1820-1859	Stephen

**INTRODUCED / PLANTED**

Strachan to Inchmarlo (hectad)	NO69	2000-2009	Welch, D.
Crathes (hectad)	NO79	2000-2009	Welch, D.
Glenbervie (hectad)	NO78	1950-1969	

**M037 *Myriophyllum spicatum* L.****Spiked Water-milfoil****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/5/5**Earliest to Latest Record (or start and end of intervals)** 1902 to 2019**Habitat** Nutrient-rich ponds and lochs.

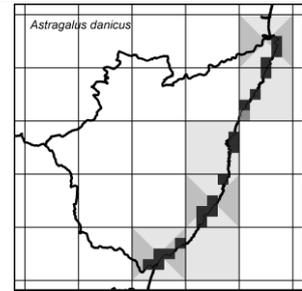
**Commentary** Aquatic perennial, the stems erect, the leaves submerged, arranged in whorls, each pinnate with fine, linear segments, the flower stalks erect, emergent, bearing flowers in distinct, complete whorls. Locally scarce, perhaps expanding its distribution as a result of general eutrophication. Elsewhere widespread and rather frequent in lowland areas, in Scotland infrequent north of the Central Belt and apparently lost from many former sites, recorded recently from 14 tetrads in Angus but from none and eight tetrads in South and North Aberdeenshire respectively.



Location	Grid Ref	Year	Recorder / Reporter
Loirston Loch, near shore	NJ939009	2012	Welch, D.
Strachan, recently-created lake at Mill of Strachan	NO64519213Ø	2019	Loizou, T.
Glensaugh, Loch Saugh	NO6778	2018	Elston, D.
Fettercairn, Edzell Airbase, loch	NO626696	2004	Welch, D.
St Cyrus, Ecclesgreig, pool at Home Farm	NO732660	2001	Welch, D.
Muchalls	NO8991	1902	

**M038 *Astragalus danicus* Retz.****Purple Milk-vetch****Local Origin** Native**National Status** EN, -, SBL**Local Status** LO; 11+ Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 6/14/18**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Short coastal grasslands.

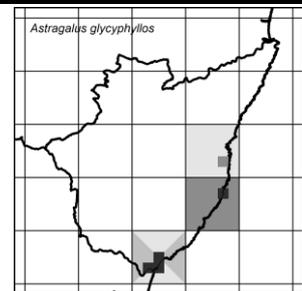
**Commentary** Low-growing, patch-forming perennial, the leaves hairy, pinnate with a terminal leaflet, the stems flexuous, bearing large, compact heads of purple flowers. Locally occasional, scattered along the coast and usually associated with some base richness. Elsewhere local, predominantly coastal in the north, frequent from North-east Yorkshire to Newburgh (North Aberdeenshire) with recent records from 21 tetrads in Angus but none in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
<b>SAMPLE</b>			
St Cyrus, dune grassland	NO739626	2007	Welch, D.
Mathers, grassy cliff N of Inverbervie, Kinghornie	NO784662	2010	Green, I.
Kinneff, coastal grassland	NO837725	2019	Routledge, G.
Crawton, coastal grassland	NO853744	2021	Elston, D.
Garron Point, coastal grassland	NO879796	2020	Routledge, G.
Downies, Berrymuir Head	NO88998748	2015	Smedley, M.
Findon, N of quarry, coastal grassland	NO926947	2023	Peaker, A.
Altens, cliff top grassland	NO94689898	2004	Waddell, J.
Nigg Bay, coastal grassland at N end	NJ96320248	2022	Elston, D.; Begbie, R.
	NJ97140524	2010	Smedley, M.

**M039 *Astragalus glycyphyllos* L.****Wild Liquorice****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/4/4**Earliest to Latest Record (or start and end of intervals)** 1750 to 2021**Habitat** Dry, coarse grassland.

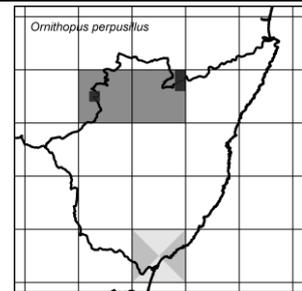
**Commentary** Sprawling perennial, the leaves large, pinnately divided with a terminal leaflet, the leaflets large and rounded, the inflorescence long-stalked, compact, the flowers creamy-yellow. Locally rare, mostly at St Cyrus cliffs and railway cutting, the known population further north is very small. Elsewhere quite local in the south, in Scotland mostly near the east coast as far north as Nigg (Easter Ross), with recent records from five tetrads between Montrose and Arbroath (Angus) in the south, from near Lossiemouth (Moray) and less recently Boyne Castle (Banffshire).



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, steep grassland	NO75206459	2021	Elston, D.; Peaker, A.
St Cyrus, disused railway line	NO74366393	2009	McIntosh, J.; Turner, A.
Braidon Bay, in grassland high up on cliff	NO86767740	2018	Elston, D.
Dunnottar Castle S of, Thornyhive	NO8782	1820-1859	Fleming, A.

**M040 *Ornithopus perpusillus* L.****Bird's-foot****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1950 to 2021**Habitat** Sandy ground, tracksides.

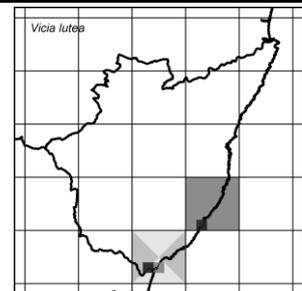
**Commentary** Low, tufted annual, the leaves hairy, pinnately divided with nearly parallel sides and a terminal leaflet, the inflorescence stalked, small, the flowers creamy-yellow with pink veins. Locally rare, perhaps introduced by human activity, the population found in 2021 is much larger than for any other recent record. Elsewhere widespread but rather local in the south, more local in Scotland with a distributional hot-spot in lowland Moray, recorded recently from Kinnaber and near Forfar (Angus) and from near Inverurie (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Blackhall Forest, by track	NO63899526	2012	Green, I.
Durris, sandy slopes in quarry to SW of Park Bridge	NO79859800	2021	Elston, D.
<i>St Cyrus (hectad)</i>	NO76	1950-1960	Duncan, U.

**M041 *Vicia lutea* L.****Yellow-vetch****Local Origin** Native**National Status** NT, NS, SBL**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2014**Habitat** Dry scrubby grassland.

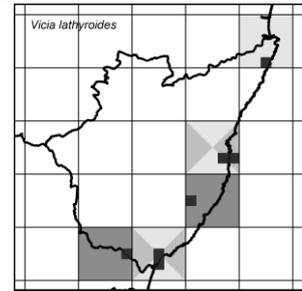
**Commentary** Annual, the leaves pinnate with a terminal tendril, the leaflets hairy with a mucronate tip, the flowers borne singly or paired in the leaf axils, the petals cream to yellow. Locally rare, long known from, and persisting at, St Cyrus, and found once as a casual at Gourdon, our sites providing the most northerly recent records. Elsewhere widespread but very local, the closest recent records being new sites at Monifieth (Angus) and Loch Leven (Fife and Kinross).



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, disused railway line	NO73686353	2009	Couch, A.; McIntosh, J.
Gourdon, waste ground	NO822707	2014	Welch, D.
<i>St Cyrus, N bank of R. Esk near the sea</i>	NO76L	1820-1836	Murray, A.
<i>St Cyrus, near the cave at Nether Warburton</i>	NO76	1820-1859	Stephen

**M042 *Vicia lathyroides* L.****Spring Vetch****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/3**Earliest to Latest Record (or start and end of intervals)** 1835 to 2023**Habitat** Thin soils prone to summer droughting.

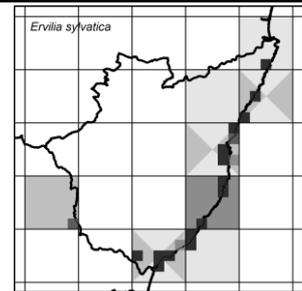
**Commentary** Small annual, the leaflets pinnate with a terminal tendril, flowers small, solitary in the leaf axils, unstalked with pink-purple petals. Locally scarce, at or near the coast, all known populations are very small except at St Cyrus NNR. Elsewhere widespread and often frequent in coastal areas, very local inland, in Scotland mostly along the east coast, recorded recently from eight coastal tetrads and one inland in Angus, also from two coastal tetrads in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Marykirk, near R North Esk, on low stone dyke	NO6865	2018	Elston, D.
St Cyrus, rear dunes	NO74506378	2021	Elston, D.
Arbuthnott, dry bank by ruined building	NO80127455	2023	Elston, D.
Dunnottar, rocky outlier, between path and sheer drop	NO88008397	2023	Elston, D.; Peaker, A.
Cove Bay, dry clifftop grassland	NJ95320055	2022	Begbie, R.; Elston, D.
<i>Nigg Parish</i>	<i>NJ90</i>	<i>1880-1919</i>	<i>Trail, J.</i>

**M043 *Ervillea sylvatica* (L.) Schur****Wood Vetch****Local Origin** Native**National Status** -, -, -**Local Status** LS; 10 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/11/12**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Wooded dens, sea cliffs and shingle.

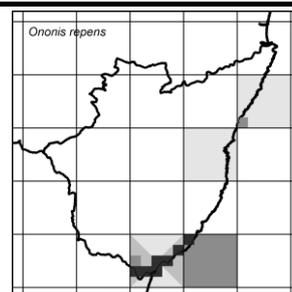
**Commentary** Scrambling perennial often forming a large, amorphous mass of weak stems, the leaves pinnate with a terminal, branched tendril and opposite, rounded leaflets, the flowers in rather open heads with white petals streaked blue-purple. Locally scarce, occurring only as small populations in woodlands but as much larger populations at the coast, most notably on the cliffs at Dunnottar and the shingle beach between Gourdon and Johnshaven. Elsewhere widespread but infrequent and apparently lost from many former sites, recorded recently from seven coastal and seven inland tetrads in Angus, the closest recent records to the north coming from near New Aberdour (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Den of Morphie, woodland	NO70676406	2020	Elston, D.
St Cyrus, disused railway line	NO74196374	2005(2022)	Hogarth, B.
St Cyrus, steep grassland	NO7564	2011	Welch, D.
Haughs of Benholm, shingle beach	NO811682	2019	Routledge, G.
Gourdon, shingle	NO8270	2014	Smedley, M.
Catterline, gorge of burn	NO86827784	2020	Elston, D.
Dunnottar, steep coastal grassland	NO87898413	2018	Elston, D.
Garron Point, Perthumie Bay, rocky grassland	NO891885	2007	Welch, D.
Muchalls	NO90379171Ø	2005	MacDonald, T.
Downies, Berrymuir Head, coastal grassland	NO92629475	2023	Blow, C.; Peaker, A.
Fettercairn, wooded gorge of R North Esk	NO599712	1982	Bayne, D.
<i>Johnshaven, shingly beach</i>	<i>NO76Y</i>	<i>1876</i>	<i>Trail, J.</i>
<i>Cove Bay</i>	<i>NJ90K</i>	<i>1820-1859</i>	<i>Dickie, G.</i>

**M044 *Ononis repens* L.****Common Restharrow****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/5/5**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Open sandy ground and dry grassland.

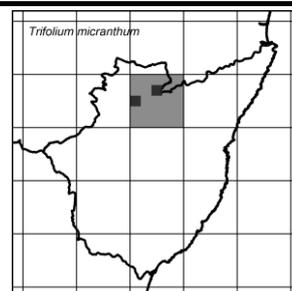
**Commentary** Low-growing perennial, woody near the base, the branches downy and with sharp spines, the leaves with one to three leaflets, hairy, grey-green and scented, the flowers unstalked and single or in small groups on the stem with large, pink petals. Locally scarce, by far the largest population is at St Cyrus NNR, apparently no longer present north of Benholm. Elsewhere widespread and generally frequent south of the border with England, more coastal in Scotland, with recent records from 31 tetrads in Angus but no and three tetrads in South and North Aberdeenshire respectively.



Location	Grid Ref	Year	Recorder / Reporter
Morphie, rocky outcrop by R. North Esk	NO71606226	2020	Elston, D.
St Cyrus, NNR, widespread in dune grassland	NO76L	2016	Turner, A.; Turner, R.
St Cyrus, disused railway line	NO74496408	2022	Elston, D.
Mathers, south-facing brae by burn	NO77376585	2020	Elston, D.
Benholm, verge of track at coast	NO810682	2014	Welch, D.
<i>Den of Morphie</i>	NO76C	1820-1859	Stephen
<i>Stonehaven, N from</i>	NO88	1820-1859	Stephen
<i>Muchalls</i>	NO9091	1964	Pritchard, N.

**M045 *Trifolium micranthum* Viv.****Slender Trefoil****Local Origin** Native**National Status** -, -, SBL**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/2/2**Earliest to Latest Record (or start and end of intervals)** 2009 to 2016**Habitat** Bare ground by car-parks.

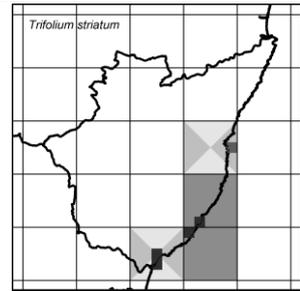
**Commentary** Low-growing annual, the stems creeping, the leaves each with a short petiole and three shallowly-notched but otherwise rounded leaflets, the inflorescence comprising small groups of tiny yellow flowers. Locally rare, only twice recorded and apparently yet to become established. Elsewhere widespread and frequent in the south, in Scotland mostly coastal and in the east, recently recorded from near Montrose, Monifieth and Dundee (Angus), from Aberdeen and near Aboyne (South Aberdeenshire) and from six coastal tetrads in North Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Crathes, verge at car-park	NO74099618	2016	Welch, D.
Banchory, path in graveyard	NO707957	2009	Green, I.

**M046 *Trifolium striatum* L.****Knotted Clover****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/3**Earliest to Latest Record (or start and end of intervals)** 1884 to 2021**Habitat** Dry, thin soils or sandy places, disturbed ground.

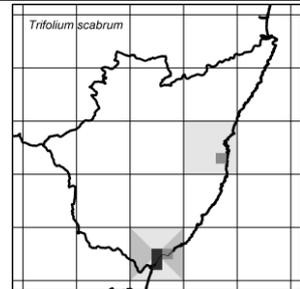
**Commentary** Procumbent annual, the leaves hairy, trifoliate, the inflorescence comprising unstalked heads of tiny flowers, the calyx pink-striped and softly hairy, the petals pink-white. Locally rare, coastal, perhaps no longer at Dunnottar. Elsewhere widespread but rather local in the south, becoming increasingly coastal in the north with only one more northerly recent record from Elgin (Moray).



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, pathside in grassland	NO757648	2011	Welch, D.
Benholm, pathside in coastal grassland	NO809681	2011	Green, I.
Gourdon, dry ground at base of coastal rock	NO83287146	2021	Elston, D.
Dunnottar, short grassland	NO880840	1995	Welch, D.

**M047 *Trifolium scabrum* L.****Rough Clover****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Dry soils underlain by volcanic rocks.

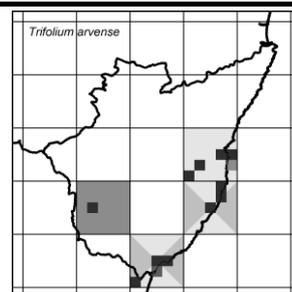
**Commentary** Procumbent annual, the leaves hairy, trifoliate with veins recurved and thickened near the margins, the inflorescence unstalked, comprising tight clusters of tiny flowers, each with a striped, hairy calyx and white petals. Locally rare, only once recorded away from St Cyrus which, excepting the plants at Burghead (Moray), is the most northerly known site. Elsewhere frequent at the coast in the south, very local inland and north of Yorkshire.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus NNR, rocks on cliff by seat	NO74516391	2022	Elston, D.
St Cyrus, coast at Kaim of Mathers	NO7664	1820-1859	Stephen
Dunnottar, by footpath to the castle	NO8783	1820-1859	Stephen

**M048 *Trifolium arvense* L.****Hare's-foot Clover****Local Origin** Native**National Status** -, -, -**Local Status** LS; 10 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/7/7**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Dry, open ground, mostly by the coast.

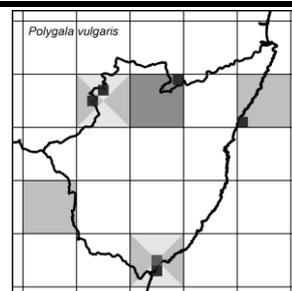
**Commentary** Hairy annual, the stems ascending, the leaves trifoliate, the leaflets long and narrow, the inflorescence comprising stalked, softly hairy, elongating heads of pale pink flowers. Locally scarce, prior to 1950 only known from Dunnottar. Elsewhere it has similarly expanded its range, being now widespread and frequent in much of the south, but more coastal and mostly eastern in Scotland, recorded recently from three tetrads in or near Aberdeen (South Aberdeenshire) and along much of the Angus coast from Montrose to Dundee.



Location	Grid Ref	Year	Recorder / Reporter
Stonehaven, along coast N of harbour	NO878855	2022	Grace, J.; Jury, S. <i>et al.</i>
Dunnottar, Castle Haven, open ground at top of cliff	NO88068434	2019	Elston, D.
Stonehaven, SW of, Criggie	NO83748243Ø	2017	Espie, A.
Barras, by Bruxie Hill	NO81638059Ø	2017	Espie, A.
Catterline, by coast S of	NO86957760Ø	2011(2020)	Green, I.
Kinneff, unstable ground below cliffs	NO854743	2021	Elston, D.
St Cyrus, bare ground below rock outcrop	NO761649	2011	Welch, D.
Morphie, in cut cereal field by R. North Esk	NO71926187	2020	Elston, D.
Fettercairn, disturbed ground at roadside	NO628748	2020	Welch, D.
St Cyrus, by path along cliff top	NO75796495	2005	Green, I.
Catterline, N of, bare place in coastal grassland	NO872783	1996	Welch, D.

**M049 *Polygala vulgaris* L.****Common Milkwort****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1950 to 2023**Habitat** Unimproved grassland and riversides.

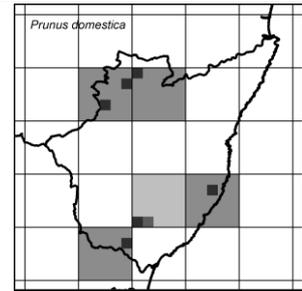
**Commentary** Prostrate perennial, the stems thin and little branched, the leaves all alternate, the inflorescence comprising numerous unstalked, separated, small, deep blue or coloured flowers. Locally scarce, requiring neutral or basic soils and often difficult to determine with confidence from the common *Polygala serpyllifolia* (Heath Milkwort). Elsewhere widespread and generally frequent including in Angus but more local in South and especially North Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, dunes	NO74556361	2004(2022)	Waddell, J.; Holme, R.
Muchalls, grassland on scree at coast	NO90179096	2020	Elston, D.
Durris, shingle by R Dee east of Park Bridge	NO799986	2020	Elston, D.; Cox, J.
Woodend, Cairnton, grassland by R Dee	NO64489634	2023	Elston, D.
Fettercairn, wooded gorge of R North Esk	NO57SE	1982	Bayne, D.

**M050 *Prunus domestica* L.****Wild Plum****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/2/2**Earliest to Latest Record (or start and end of intervals)** 1987 to 2022**Habitat** Hedgerows or former orchards.

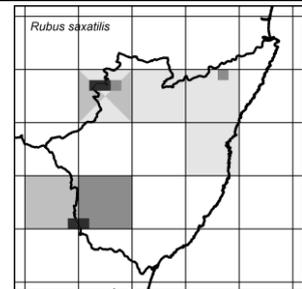
**Commentary** Tree spreading locally by suckering, the bark with horizontal ridges, the leaves rather broad and shallowly toothed, the fruit large and edible, either plum (subspecies *domestica*) or damson/bullace (subspecies *intisititia*). Locally rare and always close to human settlements. Elsewhere widespread and frequent in the south, less so in Scotland where it is mostly restricted to lowland areas particularly near the coast, recorded recently from near Montrose and Forfar (Angus), also Westhill and Inverurie (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
<b><i>Prunus domestica</i> subsp. <i>domestica</i> (-, -, -)</b>			
Laurencekirk, wooded den	NO71947156	2020	Elston, D.
<b><i>Prunus domestica</i> subsp. <i>intisititia</i> (-, -, -)</b>			
Kinneff, copse by stream	NO856775	2022	Welch, D.
Marykirk, hedgerow	NO68926606	2022	Welch, D.
Strachan, hedge	NO645937	2021	Welch, D.
Banchory, abandoned small field	NO69989701	2017	Welch, D.
Raemoir, old hedge	NO71559936	2022	Welch, D.

**M051 *Rubus saxatilis* L.****Stone Bramble****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/3**Earliest to Latest Record (or start and end of intervals)** 1804 to 2023**Habitat** Shady woodland on neutral soils and amongst rocks by rivers.

**Commentary** Perennial, the long, horizontal, vegetative stems with glossy, dark-green leaves comprising a short-stalked terminal leaflet and an unstalked basal pair, the flowering stems short, erect, bearing a small cluster of white flowers. Locally rare, only known from by the River North Esk and the valley of the River Dee and reduced in range by the latter. Elsewhere, widespread and often frequent throughout upland Britain, with plenty of recent records from Glen Esk (Angus) and upper Deeside (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, wooded gorge of R North Esk	NO59437186	2019	Elston, D.
Inchmarlo, wood edge	NO654972	2011	Welch, D.
Woodend, N bank of R Dee	NO63149600	2023	Elston, D.
Stonehaven (hectad)	NO88	1950-1960	
Kingcausie, Corbie Den	NO89U	1835-1845	Stewart, A.
Maryculter, den between there and Durris	NO89	1820-1859	MacGillivray, P.
Durris	NO79	1848	
Inchmarlo, banks of R Dee at Invercarnie	NO69T	1869	Brown, N.
Strachan Parish [perhaps in NO68]	NO69	1835-1845	New Statistical Account

**M052 *Potentilla argentea* L.****Hoary Cinquefoil****Local Origin** Native**National Status** NT, -, SBL**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2003 to 2019**Habitat** Dry, sandy grassland.

**Commentary** Low-growing perennial, the stems creeping but not rooting at the nodes, the leaves palmately divided into five narrow, toothed leaflets that are silver-hairy underneath, the flowers flat with five non-contiguous yellow petals. Locally rare, only known from Crathes sandpit and the adjacent disused railway line. Elsewhere frequent in East Anglia, otherwise widespread but very infrequent, in Scotland almost entirely eastern as far north as Moray, recorded recently from near Dunkeld (Mid Perthshire), Balmerino (Fife & Kinross) and four tetrads in Moray.



Location	Grid Ref	Year	Recorder / Reporter
Crathes, rabbit-grazed grassland at old sandpit	NO74719627	2019	Welch, D.

**M053 *Potentilla crantzii* (Crantz) Beck ex Fritsch****Alpine Cinquefoil****Local Origin** Native**National Status** -, NS, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2006 to 2023**Habitat** Basic grassland.

**Commentary** Perennial, the stems creeping but not rooting at the nodes, the leaves with long petioles, palmately divided into five toothed leaflets, the flowers large, flat, with contiguous yellow petals. Locally established on the stonework below the Cairnton pumping station presumably derived from populations in upper Deeside (South Aberdeenshire). Elsewhere a nationally scarce species restricted to calcareous rocks and grassland in the uplands, present in Angus but not upper Glen Esk.



Location	Grid Ref	Year	Recorder / Reporter
Woodend, Cairnton, R Dee, embankment at water intake	NO64509636	2023	Elston, D.

**M054 *Potentilla anglica x erecta* = *P. x suberecta* Zimmeter****A Hybrid Tormentil****Local Origin** Native x Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 2021 to 2021**Habitat** Acid grassland along forest rides.

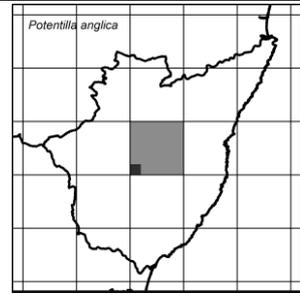
**Commentary** Low-growing perennial with long stems rooting at the nodes, the leaves only ever with short petioles with 3 or 5 narrow segments palmately divided and deeply toothed to the base, the flowers with 4 or 5 yellow petals and 8 or 10 sepals correspondingly, the pollen fertility low. Locally rare, discovered at its only known site in 2020 but not formally recorded until 2021. Elsewhere, widespread but infrequent in the south, becoming increasingly rare in Scotland north of the Central Belt, recorded recently from Barry Links and south of Brechin (Angus) but never from north of Kincardineshire.



Location	Grid Ref	Year	Recorder / Reporter
Drumtochty Forest, ride	NO70148143	2021	Peaker, A.; Blow, C.; Elston, D.

**M055 *Potentilla anglica* Laichard.****Trailing Tormentil****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 2021 to 2021**Habitat** Acid grassland along forest rides.

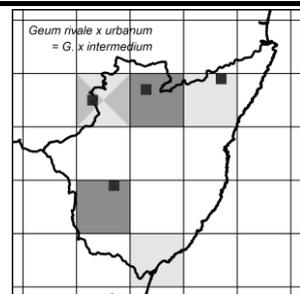
**Commentary** Low-growing perennial with long stems rooting at the nodes, the leaves often with long petioles and 3 or 5 fan-shaped segments palmately divided to the base, the flowers with 4 or 5 yellow petals and 8 or 10 sepals correspondingly, the pollen fertility high. Locally rare, discovered at its only known site in 2020 but not formally recorded until 2021. Elsewhere widespread and frequent in the south, rare in Scotland north of the Central Belt, recorded recently from Ellon and Loch of Strathbeg (North Aberdeenshire) and from Barry Links (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Drumtochty Forest, ride	NO70148143	2021	Blow, C., Peaker, A.; Elston, D.

**M056 *Geum rivale x urbanum* = *G. x intermedium* Ehrh.****Hybrid Avens****Local Origin** Native x Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/1/0**Earliest to Latest Record (or start and end of intervals)** 1950 to 2020**Habitat** Moist ground along hedgerows and open woodland.

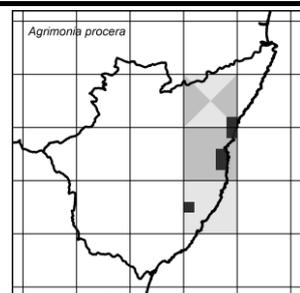
**Commentary** Erect perennial with pinnately divided leaves, the end lobe broad, the opposite pairs decreasing in size toward the base, the long-stalked flowers usually pendant with mauve-yellow petals barely overlapping. Apparently locally scarce but probably under-recorded. Elsewhere one of the commonest hybrid plants, widespread and often frequent including in lowland Scotland as far north as Inverness.



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, near Clattering Brig	NO6678	2007	Welch, D.
Woodend, riverside	NO6395	2014	Welch, D.
Crathes, grassland near R Dee	NO7396	2015	Welch, D.
Maryculter, Corbie Den	NO86019971	2020	Elston, D.
<i>St Cyrus (hectad)</i>	NO76	1950-1969	

**M057 *Agrimonia procera* Wallr.****Fragrant Agrimony****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/4/4**Earliest to Latest Record (or start and end of intervals)** 1875 to 2021**Habitat** Grassland on rich, dry soils.

**Commentary** Tall perennial, the stems erect, the leaves pinnate, the leaflets toothed with scent-glands but few hairs underneath, the inflorescence made up of long, narrowly cylindrical spikes, the short-stalked flowers with yellow petals developing to form bell-shaped fruits with hooks having backward-pointing arms. Locally scarce, at or near the coast. Elsewhere widespread but rather local, in Scotland mostly in the west, excepting the population at Cullykhan Bay (Banffshire) our plants form the northerly limit of recent records on the east coast.



Location	Grid Ref	Year	Recorder / Reporter
Arbuthnott, Den of Pitcarles, in scrubby grassland	NO81337542	2018	Elston, D.
Dunnottar, Castle headland, by path to castle	NO87978387	2019	Elston, D.
Garron Point, Perthumie Bay, grassland by shore	NO89088849	2021	Elston, D.; Cox, J.
Mill of Muchalls, track to bay	NO89879092	2015	Welch, D.

**M058 *Alchemilla alpina* L.**

Alpine Lady's-mantle

Local Origin Native

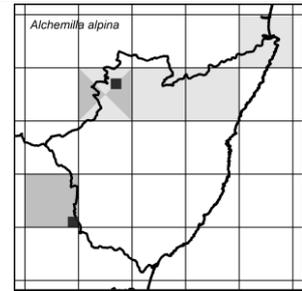
National Status -, -, -

Local Status LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2

Earliest to Latest Record (or start and end of intervals) 1750 to 2015

Habitat Riverside grassland or rocks.

**Commentary** Short perennial, the leaves palmate with five or seven leaflets, divided to the base, each leaflet narrowly ovate with toothed margins, the flowers held in small clusters, individually tiny, yellow-green. Locally rare, long known as a short-lived colonist from many locations by the River Dee, discovered also by the River North Esk in 1987. Elsewhere very local except north of the Highland Boundary Fault, where it is widespread and frequent in areas with a strong upland influence including upper Glen Esk (Angus) and the hills of Deeside (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Inchmarlo, riverside	NO67809622	2003	Welch, D.
Fettercairn, gorge at The Burn	NO599711	2015	Meek, E.
Banchory, by R Dee [perhaps in NO79]	NO69	1820-1859	Dickie, G.
Durris, riverside	NO79	1750-1770	Skene, D.
Maryculter Parish, riverside [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Banchory-Devenick Parish, riverside	NJ90	1880-1919	Trail, J.
Nigg Parish, riverside	NJ90	1880-1919	Trail, J.

**M059 *Alchemilla filicaulis* Buser**

Hairy Lady's-mantle

Local Origin Native

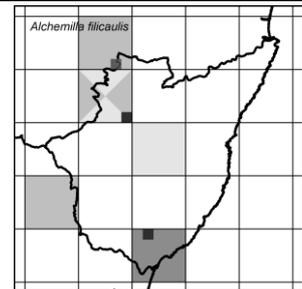
National Status -, -, -

Local Status LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0

Earliest to Latest Record (or start and end of intervals) 1952 to 2021

Habitat Grassland.

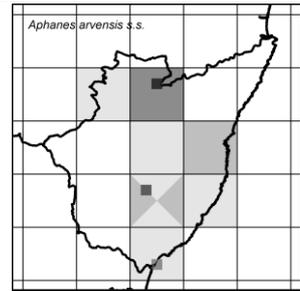
**Commentary** Rather short, tufted, the leaves green, kidney-shaped with rounded, finely toothed lobes and long petioles, the upper surface of the leaf blades covered with widely spaced patent hairs, the inflorescence a loose mass of tiny yellow-green flowers each with a hairy hypanthium. Locally rare, sometimes recorded to subspecies level, apparently lost from several former sites but recently discovered at new sites along a forest ride and on Hill of Garvock suggesting other sites await discovery. Elsewhere widespread and generally frequent except in areas of high agricultural intensity, well represented in hill land in Angus and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
<b><i>Alchemilla filicaulis</i> subsp. <i>vestita</i> (-, -, -)</b>			
Strachan, by ride in pine plantation	NO688918	2021	Welch, D.
Banchory-Bridge of Canny	NO69	1988	Smith, P.
Raemoir, marsh	NJ6700	1994	Welch, D.
Glenbervie (hectad)	NO78	1952	Gardiner, J.
<b><i>Alchemilla filicaulis</i> subsp. <i>filicaulis</i> (-, -, -)</b>			
Strachan to Inchmarlo (hectad)	NO69	1957	Sommerville, A.
<b><i>Alchemilla filicaulis</i> (-, -, -)</b>			
Hill of Garvock, West Bradieston SSSI	NO72896909	2021	Elston, D.; Peaker, A.; Blow, C.
Fettercairn, wooded gorge of R North Esk	NO57SE	1982	Bayne, D.

**M060 *Aphanes arvensis* L.****Parsley-piert****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/2/3**Earliest to Latest Record (or start and end of intervals)** 1950 to 2011**Habitat** Disturbed ground on base-rich soils.

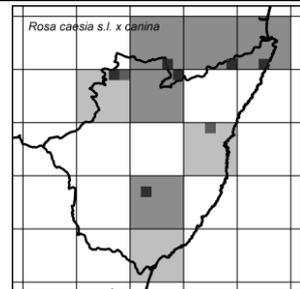
**Commentary** Small creeping or ascending, grey-green annual, the leaves twice-divided into three equal parts, the flowers in unstalked clustered in the leaf axils with triangular stipule teeth below and sepals erect not incurved in fruit. Locally rare, much less common than the similar *Aphanes australis* (Slender Parsley-piert) and apparently becoming more restricted in distribution. Elsewhere widespread and generally frequent on rich soils, well-recorded in Angus up to the boundary with Kincardineshire so may be under-recorded here.



Location	Grid Ref	Year	Recorder / Reporter
Raemoir	NO6799	2008	Welch, D.
Crathes, setaside field	NO750961	2011	Welch, D.
Auchenblae, floor of small quarry	NO725776	2003	Welch, D.
Stonehaven (hectad)	NO88	1987-1999	
Strachan to Inchmarlo (hectad)	NO69	1957	Sommerville, A.
Glenbervie (hectad)	NO78	1950-1969	
Inverbervie (hectad)	NO87	1950-1969	
St Cyrus, S of	NO7463	1951	Graham, R.

**M061 *Rosa caesia* s.l. x *canina*****A Hybrid Rose****Local Origin** Native x Native**National Status** -, -, -**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/2/2**Earliest to Latest Record (or start and end of intervals)** 1970 to 2023**Habitat** Open scrubby grassland.

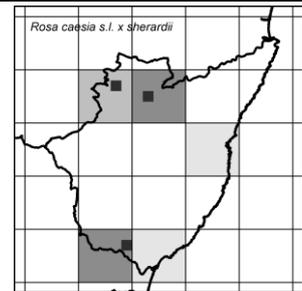
**Commentary** Woody shrub with arched stems, the prickles strongly curved, the sepals pointing variously forward and backwards as the fruit ripens. Locally rare, recorded from scattered sites and likely occurring more widely. Elsewhere widespread but rather infrequent, the patchiness of recordings perhaps reflecting the interests of recorders, the closest recent records being from Meigle and Shanzie (East Perthshire), near Midmar (South Aberdeenshire), also near Inch and Clola (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
<b><i>Rosa canina</i> x <i>vosagiaca</i> = <i>R. x subcanina</i> (-, -, -)</b>			
Durris, Park Bridge monad	NO7998	2023	Elston, D.
Banchory, N of Lochhead of Leys	NO695981	1983	Chater, A.
<b><i>Rosa caesia</i> s.l. x <i>canina</i> (-, -, -)</b>			
Auchenblae, S of, tetrad NO771	NO7277	2023	Elston, D.
Cove Bay, top of cliff	NJ956009	2007	Welch, D.
Ardoe, scrub under telephone lines by R Dee	NJ89160174	2020	Elston, D.
Hirn, roadside near Quiddies Mill	NJ76710164	2023	Elston, D.
Raemoir, trackside	NO668996	2002	Welch, D.
St Cyrus, dunes	NO76	1987	Graham, G.
Stonehaven, roadside	NO859897	1999	Welch, D.

**M062 *Rosa caesia s.l. x sherardii*****A Hybrid Rose****Local Origin** Native x Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/0/0**Earliest to Latest Record (or start and end of intervals)** 1901 to 2021**Habitat** Open scrub.

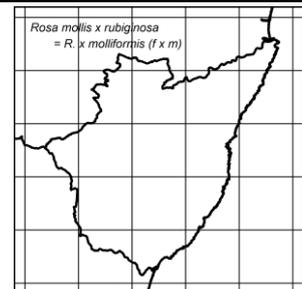
**Commentary** Arching, woody shrub with curved prickles, the leaves weakly glandular and with limited tomentum. Locally rare but perhaps under-recorded. Elsewhere very infrequently recorded but widespread north of a line connecting The Wash with the River Severn, the closest recent records being from near Collieston (North Aberdeenshire), also from three tetrads around Bankfoot (Mid Perthshire).



Location	Grid Ref	Year	Recorder / Reporter
<b><i>Rosa caesia s.s. x sherardii</i> (-, -, -)</b>			
Inchmarlo, trackside near river	NO677962	2011	Welch, D.
Tilquhillie, roadside at Balbridie	NO735957	2021	Welch, D.
Marykirk, roadside	NO692663	2007	Welch, D.
Stonehaven, near	NO88	1901	Bailey, C.
<b><i>Rosa vosagiaca x sherardii</i> (-, -, -)</b>			
Banchory, roadside	NO676973	2021	Welch, D.
St Cyrus, near	NO76	1916	Druce, G.

***Rosa mollis x rubiginosa* = *R. x molliformis* (f x m) f x m)****A Hybrid Rose****Local Origin** Native x Native**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1978 to 1978**Habitat** Dune grassland.

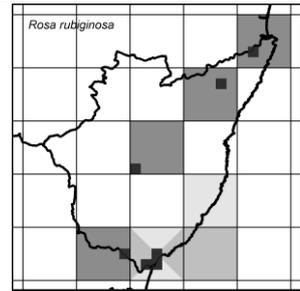
**Commentary** Woody shrub with long, patent prickles inherited from *Rosa mollis* differing markedly from strongly curved prickles inherited from *Rosa rubiginosa*. Locally with no recent records, unfortunately only recorded once and then at 1 km square resolution so possibly still present but, if not, then with both parent species present at St Cyrus the hybrid may reform. Elsewhere widespread but very infrequent in the north with almost all records coming from lowland Scotland, the closest recent records are from Moray with less recent records from the Alford hectad NJ61 (South Aberdeenshire) and four hectads in Fife & Kinross.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus NNR	NO7464	1978	Palmer, J.; Martin, M. <i>et al.</i>

**M064 *Rosa rubiginosa* L.****Sweet-briar****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/6/6**Earliest to Latest Record (or start and end of intervals)** 1876 to 2023**Habitat** Grassland or more rarely open woodland.

**Commentary** Woody shrub with prickles of various shapes and sizes, the largest strongly curved, the leaves and pedicels with apple-scented glands. Locally scarce, the strongest population being at St Cyrus NNR, perhaps a garden escape at some other sites. Elsewhere widespread, most frequent in lowland areas on richer soils, recorded recently from 13, 0 and 9 tetrads in Angus, South Aberdeenshire and North Aberdeenshire respectively.



Location	Grid Ref	Year	Recorder / Reporter
Maryculter, Stranog, scrub	NO86259650Ø	2006	Lawrie, J.
Kincorth Hill, grassland	NJ934026	2012	Welch, D.
Drumtochty, open scrub	NO70878041	2023	Elston, D.
Morphie, roadside	NO69806471	2019	Welch, D.
St Cyrus NNR, consolidated dune grassland	NO74856400	2021	Elston, D.; Jones, L.; Jones, A.
Benholm, by coastal track to Johnshaven	NO86	1998	Sanford, M.
Arbuthnott [ <i>perhaps in NO77</i> ]	NO87	1876	Trail, J.

**M065 *Rosa rubiginosa* x *spinosissima* = *R. x biturigensis* Boreau****A Hybrid Rose****Local Origin** Native x Native**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1978 to 1987**Habitat** Basic scrub.

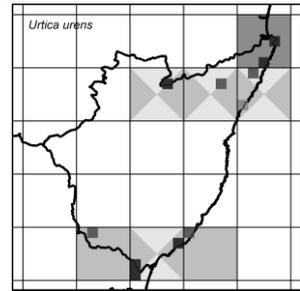
**Commentary** Woody shrub with dense, erect, stems bearing both large, curved prickles and slender, straight prickles and acicles. Locally with no recent records, unfortunately only recorded at 1km square resolution so possibly still present, certainly both parent species grow at St Cyrus so the hybrid could form there again. Elsewhere little reported in Britain, the closest recent records being near Ythanwells (North Aberdeenshire) and Longniddry (East Lothian).



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, dunes	NO76	1987	Graham, G.

**M066 *Urtica urens* L.****Small Nettle****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/6/6**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Disturbed ground.

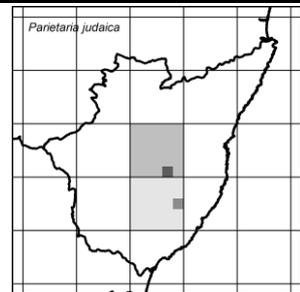
**Commentary** Annual, the stems erect to ascending, similar to *Urtica dioica* (Stinging Nettle) but with leaves that are markedly more serrate and with less acuminate tips. Locally scarce, mostly coastal and apparently becoming much less widespread. Elsewhere widespread and often frequent in lowland Britain, mostly coastal in Scotland and apparently being lost from some areas, recorded recently from 10, and 12 tetrads in Angus and South Aberdeenshire respectively.



Location	Grid Ref	Year	Recorder / Reporter
Morphie, edge of arable field	NO716625	2008	Welch, D.
Johnshaven, disturbed ground between road and sea wall	NO79946712	2019	Elston, D.
Cove Bay, field of cabbages	NJ955009	2007	Welch, D.
Nigg, Balnagask Golf Course, by bench	NJ960053	2020	Green, I.
Crathes, unmanaged strip by arable field	NO76339650	2022	Moss, R.
Fettercairn, Edzell Airbase (tetrad)	NO66J	1988	Birse, E.L.; Birse, E.M.
St Cyrus, field at SSSI border	NO76	1989	Smith, M.
Benholm	NO86E	1997	Welch, D.
Marywell, SE of	NO9398	1988	Birse, E.L.; Birse, E.M.
Maryculter, Invercrynock	NO8697	1973	
Newtonhill, monad to W.	NO9093	1964	Pritchard, N.

**M067 *Parietaria judaica* L.****Pellitory-of-the-Wall****Local Origin** Native?**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1999**Habitat** On old walls.

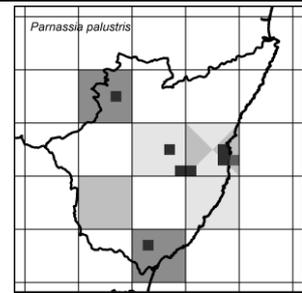
**Commentary** Short, tufted, perennial, the stems bearing rounded, strongly veined leaves, the flowers tiny, reddish, densely packed in axillary clusters. Locally with no recent records, only twice recorded and may have been a deliberate introduction. Elsewhere a widespread lowland plant, mostly coastal in Scotland, the closest recent records being a cluster between Montrose and Arbroath (Angus) in the south, also Tolquhon Castle and Fyvie Castle (North Aberdeenshire) in the north.



Location	Grid Ref	Year	Recorder / Reporter
Glenbervie House, wall of old garden	NO767805	1999	Welch, D.
Arbuthnott House, walls	NO7975	1820-1859	Chrystall, L.

**M068 *Parnassia palustris* L.****Grass-of-Parnassus****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1950 to 2023**Habitat** Flushed grassland and seepage cliffs.

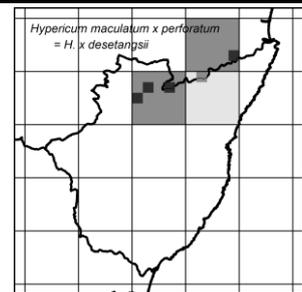
**Commentary** Short perennial, the leaves glossy, heart-shaped, mostly basal, the flowering stems erect, bearing a single leaf low down and topped with a showy flower facing upwards with white petals and green veins. Locally scarce, the cliff sites are rather inaccessible and best viewed with binoculars, the Scolty Hill site escaped BSBI attention until 2020 despite illustration in a coat of arms on a nearby information board. Elsewhere declining in some lowland areas due to changes in land management but widespread and frequent in much of the north including less intensively managed parts of Angus and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Strachan, ditch by path on Scolty	NO67539428	2020	Elston, D.; Cox, J.
Glenbervie, Quithel, flushes	NO779857	2011(2022)	Welch, D.
Dunnottar, Old Hall Bay, seepage high up on cliff	NO87988356	2019	Elston, D.
Drumlithie, Foggy Moss	NO79978018	2023	Elston, D.
St Cyrus, wet heathy grassland near Brandshill Wood	NO73206782	2022	Elston, D.
Esslie Moss	NO67K	1970-1999	
Inverbervie (hectad)	NO87	1950-1969	

**M069 *Hypericum maculatum* x *perforatum* = *H. x desetangsii* Lamotte****Des Etang's St John's-wort****Local Origin** Native x Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/4/4**Earliest to Latest Record (or start and end of intervals)** 1956 to 2010**Habitat** Neutral grassland.

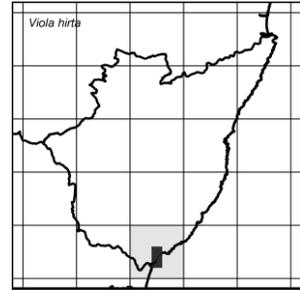
**Commentary** Medium-sized perennial, the stems erect with two strong and two weak ridges, the leaves rounded, unstalked, the inflorescence branched, the flowers with yellow petals somewhat longer than the green, acuminate, sepals. Locally scarce, by the River Dee from Banchory to Blairs. Elsewhere widespread but rather infrequently recorded throughout lowland Britain, recently recorded from only two tetrads (Craibstone and Bankhead) in South Aberdeenshire and not at all from Angus.



Location	Grid Ref	Year	Recorder / Reporter
Banchory, shingle island of R Dee	NO705954	2006	Green, I.; Watson, A.
Crathes, north grassy bank of R Dee	NO722964	2006	Green, I.; Duncan, M.; Watson, A.
Kirkton of Durriss, woodland edge	NO77089666Ø	2010	Green, I.
Ardoe, by R Dee	NJ89480206Ø	2004	Waddell, J.
Maryculter, Tilbouries, by R Dee	NO821986	1956	Robson, N.

**M070 *Viola hirta* L.****Hairy Violet****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/2/2**Earliest to Latest Record (or start and end of intervals)** 1847 to 2023**Habitat** Dune grassland.

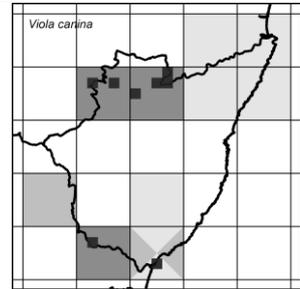
**Commentary** Low-growing perennial, the stems short, the leaves heart-shaped with hairy petioles, the flowers blue-violet. Locally rare, long-known from St Cyrus, currently known from a single area but recorded in 2004 from further north (NO75626482). Elsewhere widespread and sometimes frequent in the south, local and mostly coastal north of Yorkshire, ours is one of its most northerly populations, the closest other recent records being from its two Angus sites near Boddin and Lundie Craigs.



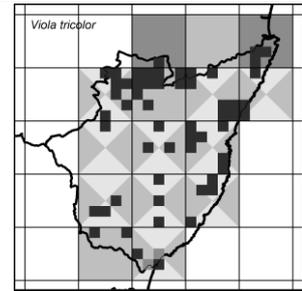
Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, dunes	NO74666393	2019(2022)	Ritchie, S.
St Cyrus, former railway line, near N end	NO74466405	2023	Elston, D.

**M071 *Viola canina* L.****Heath Dog-violet****Local Origin** Native**National Status** NT, -, -**Local Status** LS; 9 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/7/9**Earliest to Latest Record (or start and end of intervals)** 1880 to 2023**Habitat** Heathy grassland.

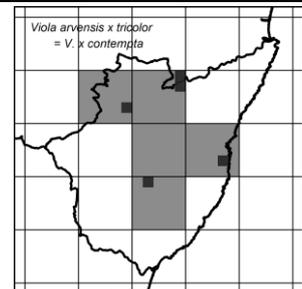
**Commentary** Low-growing perennial, the stems short, the leaves dark green, narrowly heart-shaped with stipule teeth not fimbriate, the flowers pale to mid blue with a yellowish spur. Locally scarce, apparently becoming more restricted in distribution, recorded recently only from by the River Dee and near the River North Esk. Elsewhere, widely distributed but infrequent and apparently lost from many sites, recently recorded from about 16 sites in Angus and 35 in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus	NO7463	2005	Green, I.
Fettercairn, Edzell Airbase, S of	NO63176778Ø	2012	Green, I.
Inchmarlo, by R Dee	NO67159635Ø	2006	Green, I.
Banchory, shingle island of R Dee	NO70499543Ø	2006	Green, I.
Crathes, grassland at sandpit	NO747962	2019	Welch, D.
Crathes, by railway footpath	NO75299654Ø	2012	Green, I.
Crathes, by R Dee	NO76599673Ø	2010	Green, I.
Loch of Park, NW of	NO76359947Ø	2010	Green, I.
Woodend, bare ground by R Dee	NO629961	2023	Elston, D.
Fettercairn, wooded gorge of R North Esk	NO57SE	1982	Bayne, D.
<i>Auchenblae (hectad)</i>	NO77	1950-1969	
<i>Kingcausie</i>	NJ80	1901	Boswell-Syme, J.
<i>Maryculter (hectad)</i>	NO89	1950-1960	
<i>Banchory-Devenick Parish [perhaps in NJ90]</i>	NO99	1880-1919	Trail, J.
<i>Nigg Parish</i>	NJ90	1880-1919	Trail, J.

**M072 *Viola tricolor* L.****Wild Pansy****Local Origin** Native**National Status** NT, -, SBL**Local Status** LO; 11+ Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 15/37/35**Earliest to Latest Record (or start and end of intervals)** 1841 to 2023**Habitat** Arable fields and disturbed ground.**Commentary** Annual to perennial forming small tufts, the flowers usually with both yellow and blue panels held in a near-vertical plane. Locally widespread, primarily in the lowlands areas and apparently faring better here than in some other parts. Elsewhere widespread and generally frequent, although markedly declining in some areas.

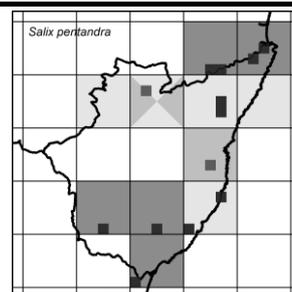
Location	Grid Ref	Year	Recorder / Reporter
<b>SAMPLE</b>			
Strachan, SW of	NO65669132Ø	2019	Loizou, T.
Crathes Castle, grounds	NO74049628Ø	2010	Loizou, T.
Durris, Drumallan, by R Dee	NO79649799Ø	2012	Green, I.
Cove Bay, Charleston	NJ93520090Ø	2019	Loizou, T.
Newtonhill	NO90949301Ø	2005	MacDonald, T.
Netherley, track by Red Moss	NO86699381Ø	2006	Lawrie, J.
Fetteresso, Elfhill	NO80718477Ø	2011	Green, I.
Laurencekirk, field margin near East Drumnagair	NO68706919	2022	Elston, D.
Fettercairn	NO6473	2023	Blow, C.; Peaker, A.
St Cyrus NNR, dune grassland	NO7463	2015	Meek, E.

**M073 *Viola arvensis x tricolor = V. x contempta*****A Hybrid Pansy****Local Origin** Archaeophyte x Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/4/5**Earliest to Latest Record (or start and end of intervals)** 2003 to 2021**Habitat** Arable fields or disturbed ground.**Commentary** Annual or short-lived perennial, intermediate between its parents (*Viola tricolor*, Wild Pansy and *Viola arvensis*, Field Pansy). Locally scarce, appearing temporarily in the presence of both parents. Elsewhere widespread but very local and though absent from many regions has recently been recorded quite frequently in the coastal plain from Edinburgh to Inverness.

Location	Grid Ref	Year	Recorder / Reporter
Durris, arable field by R Dee	NO79319784	2021	Elston, D.
Strachan, sand quarry	NO680922	2004	Welch, D.
Auchenblae, arable field	NO724799	2003	Welch, D.
Dunnottar, S of	NO878830	2011	Green, I.

**M074 *Salix pentandra* L.****Bay Willow****Local Origin** Native**National Status** -, -, -**Local Status** LS; 10 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 6/8/8**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Fens, marshes.

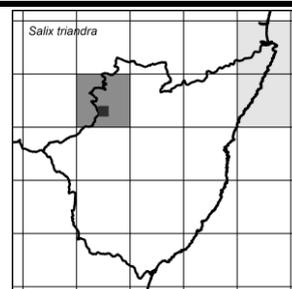
**Commentary** Tall shrub, the branches dark and shiny bearing rather broad leaves that are glossy on both sides. Locally scarce, recorded from widely scattered sites. Elsewhere widespread and generally frequent north of the English Midlands but excluding upland Scotland, recorded recently from 30 and 7 tetrads in South Aberdeenshire and Angus respectively.



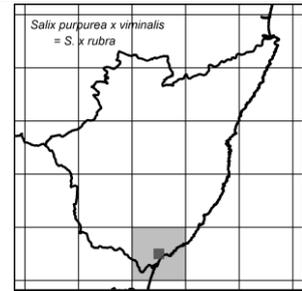
Location	Grid Ref	Year	Recorder / Reporter
Esslie Moss	NO64187087	2021	Elston, D.
Morphie, by R North Esk	NO717619	2016	Elston, D.
Garvock, den north of kirk	NO744705	2020	Welch, D.
Benholm, fen at Annie's Dam	NO80057172	2020	Elston, D.
Braidon Bay, Glasslin Burn	NO86737747Ø	2011	Green, I.
Netherley, Red Moss	NO86549378Ø	2006(2021)	Lawrie, J.
Kincorth, by R Dee	NJ93010363	2023	Elston, D.
Tullos, swamp by railway	NJ953043	2013	Welch, D.
Kingcausie, Blairs, north bank of R Dee	NJ87700131	2020	Elston, D.
Maryculter, by R Dee	NJ843001	2012	Welch, D.
Loch of Lumgair	NO8582	1980	Ferreira, C.
Crathes Castle, grounds	NO7396	1991	NTS Staff
<i>Strachan to Inchmarlo (hectad)</i>	NO69	1957	Sommerville, A.
<i>Banchory-Devenick Parish [perhaps in NJ90]</i>	NO99	1880-1919	Trail, J.

**M075 *Salix triandra* L.****Almond Willow****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 2021**Habitat** Scrub on marshy ground.

**Commentary** Shrub or small tree, the trunk with bark flaking off, the leaves strongly serrate, a deep, glossy green above but pale or glaucous below, the stipules large and persistent. Locally rare, rediscovered in 2021 and only recorded once previously. Elsewhere widespread and often frequent in the south-east, becoming local in the west and north, in Scotland recent records are thinly scattered, the closest being a cluster in East Perthshire and one near Aberchirder (Banffshire).



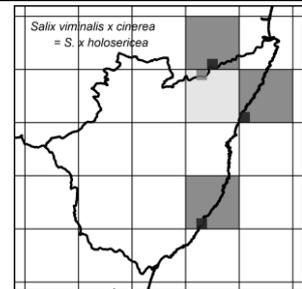
Location	Grid Ref	Year	Recorder / Reporter
Strachan, by outflow of former pond near Waulkmill	NO647926	2021	Welch, D.
<i>Banchory-Devenick Parish [perhaps in NJ90]</i>	NO99	1880-1919	Trail, J.

**M076 *Salix purpurea x viminalis* = *S. x rubra* Huds.****Green-leaved Willow****Local Origin** Native x Archaeophyte**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1978 to 1978**Habitat** Scrub on marshy ground.**Commentary** Tall shrub with long, straight branches and rather narrow leaves that are green, not pale, underneath. Locally with no recent records, only recorded from St Cyrus NNR but unfortunately at 1 km square resolution. Elsewhere widespread but local, recorded recently near Tarland (South Aberdeenshire) and Blairgowrie (East Perthshire).

Location	Grid Ref	Year	Recorder / Reporter
St Cyrus	NO7464	1978	Stirling, A.

**M077 *Salix caprea x cinerea x viminalis* = *S. x calodendron* Wimm.****Holme Willow****Local Origin** Native x Archaeophyte**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 2000 to 2022**Habitat** Scrub on wet soils.**Commentary** Tall shrub or small tree, the branches erect, the leaves rather broad, acuminate with persistent stipules, the catkins developing before the leaves, elongate-cylindrical and always female. Locally rare, recorded from three lowland sites. Elsewhere widespread but local, with strongholds in the fens of East Anglia and the Orkney Islands, recorded recently at Lunan Bay (Angus) and Turriff (North Aberdeenshire).

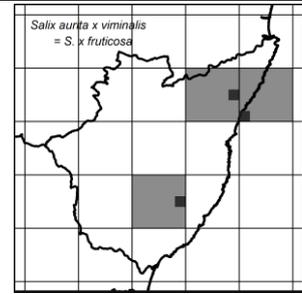
Location	Grid Ref	Year	Recorder / Reporter
Tullos, marsh by railway	NJ953043	2007	Welch, D.
Glenbervie, marsh at Hawkhill	NO758807	2022	Welch, D.
Auchenblae, marsh at roadside	NO75027893	2022	Welch, D.

**M078 *Salix viminalis x cinerea* = *S. x holosericea* Willd.****Silky-leaved Willow****Local Origin** Native x Archaeophyte**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/3**Earliest to Latest Record (or start and end of intervals)** 1955 to 2012**Habitat** Scrubby grassland.**Commentary** Woody shrub, the twigs dark reddish-brown, the leaves long and either shortly tomentose or nearly glabrous below with large persistent stipules, the catkins large. Locally rare, recorded from the coast and by the River Dee. Elsewhere widespread, but generally infrequently recorded, particularly so north of Dundee, the closest recent records being from near Newburgh and Huntly (North Aberdeenshire) and near Lunan Bay and Glamis (Angus).

Location	Grid Ref	Year	Recorder / Reporter
Maryculter, by R Dee	NJ843001	2012	Welch, D.
Mill of Muchalls, coastal grassland	NO901913	2003	Welch, D.
Benholm, coastal slope	NO821702	2002	Welch, D.
Maryculter, Tilbouries, by R Dee	NO89J	1955	Robson, N.

**M079 *Salix aurita x viminalis* = *S. x fruticosa* Döll****Shrubby Osier****Local Origin** Native x Archaeophyte**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/3**Earliest to Latest Record (or start and end of intervals)** 2003 to 2020**Habitat** Wet scrub.

**Commentary** Woody shrub, much divided with rather straight, slender branches, the leaves dark above, tomentose-grey below, rather narrow with strongly undulate margins and large, persistent stipules. Locally rare, recorded from three lowland sites. Elsewhere widespread but very infrequently recorded, the closest recent records being from Rothiemay (North Aberdeenshire) and near Blairgowrie (East Perthshire).



Location	Grid Ref	Year	Recorder / Reporter
Arbuthnott, by Bervie Water	NO783746	2012	Welch, D.
Muchalls, streamside	NO902917	2013	Welch, D.
Cammachmore, hedgerow	NO898948	2020	Welch, D.

**M080 *Salix caprea x cinerea* = *S. x reichardtii* A.Kern.****A Hybrid Willow****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 2021 to 2021**Habitat** Scrub, woodland edge.

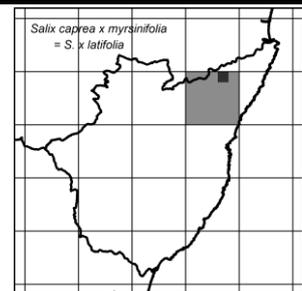
**Commentary** Shrub or small tree with characters intermediate between its *Salix caprea* (Goat Willow) and *Salix cinerea* (Grey Willow) parents. Apparently locally rare, recorded only once, but almost certainly greatly under-recorded. Elsewhere one of the most widespread hybrids, recorded more frequently in some areas than others presumably due to variation between recorders as well as to variation in occurrence.



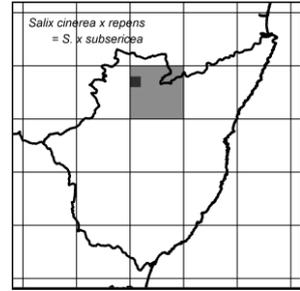
Location	Grid Ref	Year	Recorder / Reporter
Catterline, coastal grassland	NO869782	2021	Welch, D.

**M081 *Salix caprea x myrsinifolia* = *S. x latifolia* J.Forbes****A Hybrid Willow****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 2022 to 2022**Habitat** Riversides.

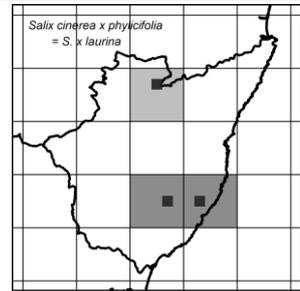
**Commentary** Small branching tree, the leaves rather less than three times as long as wide, cuneate at the base and acute at the apex, dark green and rather shiny above, hairy with prominent veins below. Locally rare, only recorded once with some doubt over the identification due to this being a male tree. Elsewhere a rare hybrid with widely scattered records, mostly from Scotland, with small clusters near Blairgowrie and Rattray (East Perthshire), also between Dunkeld and Pitlochry (East Perthshire and Mid Perthshire).



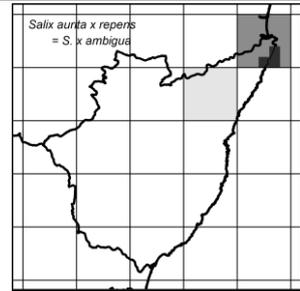
Location	Grid Ref	Year	Recorder / Reporter
Maryculter Woods, by Crynoch Burn	NO86289900	2022	Elston, D.

**M082 *Salix cinerea x repens* = *S. x subsericea* Döll****A Hybrid Willow****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2005 to 2015**Habitat** Scrub by wet heathland.**Commentary** Low shrub, the twigs dark, the leaves quite large, bright green above, persistently hairy below, the stipules falling quickly. Locally rare, only known from one site. Elsewhere widespread but apparently very local, mostly coastal, with records from Glen Esk and Milldens (Angus) and near Ellon (North Aberdeenshire).

Location	Grid Ref	Year	Recorder / Reporter
Banchory, Lochton of Leys, hedgerow	NO70929738	2015	Welch, D.

**M083 *Salix cinerea x phylicifolia* = *S. x laurina* Sm.****Laurel-leaved Willow****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1993 to 2023**Habitat** Marshy scrub.**Commentary** Large woody shrub, the leaves large, dark green and shiny above, glaucous beneath, the ovaries/seed capsules densely hairy. Locally rare, only one plant known. Elsewhere mostly from Yorkshire northwards, widespread but infrequently recorded, the closest recent records coming from Glen Esk (Angus) and near Whinnyfold (North Aberdeenshire).

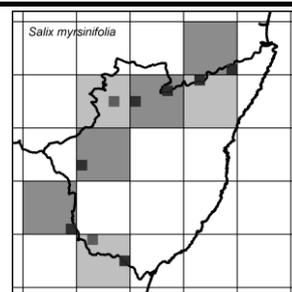
Location	Grid Ref	Year	Recorder / Reporter
Crathes Castle, marsh by lake	NO74069664	2010(2019)	Welch, D.
Mill of Garvock, wet woodland by Bervie Water	NO765753	2023	Elston, D.
Inverbervie, by Broggie Burn at Clashendrum	NO83127572	2023	Elston, D.

**M084 *Salix aurita x repens* = *S. x ambigua* Ehrh.****A Hybrid Willow****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1880 to 2023**Habitat** Coastal heaths.**Commentary** Low growing bush, the branches initially prostrate, at least some ultimately erect, the leaves much longer than wide, with persistent stipules and silky-hairy underneath. Locally rare, recorded recently only from along the coast from Girdle Ness to Cove. Elsewhere widespread but infrequent, particularly in the south, the closest recent records being from Sand of Forvie (North Aberdeenshire) and upper Glen Esk (Angus).

Location	Grid Ref	Year	Recorder / Reporter
Cove Bay, top of cliffs	NJ9637302507	2023	Elston, D.
Maryculter [perhaps in NJ80]	NO89	1880-1919	Trail, J.

**M085 *Salix myrsinifolia* Salisb.****Dark-leaved Willow****Local Origin** Native**National Status** -, -, -**Local Status** LS; 8 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/3/3**Earliest to Latest Record (or start and end of intervals)** 1987 to 2021**Habitat** Scrub by rivers.

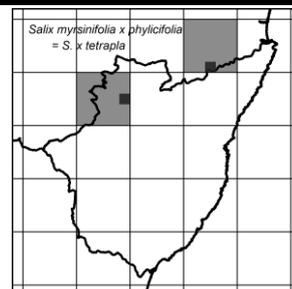
**Commentary** Large woody shrub, the twigs densely pubescent, the leaves dark green above and glaucous below, feeling rather thin, with persistent stipules, the ovaries/seed capsules nearly glabrous. Locally scarce, most records from near either the River Dee or the River North Esk. Widespread but mostly infrequent in the north, frequent in the Scottish Highlands south of the Great Glen particularly in hill areas of Angus.



Location	Grid Ref	Year	Recorder / Reporter
Banchory, by R Dee	NO7095	2011	Welch, D.
Kirkton of Durris, by R Dee	NO76679669	2021	Elston, D.
Durris, by R Dee	NO8098	2001	Welch, D.
Maryculter, Tilbouries, by R Dee	NO82859871	2021	Elston, D.
Maryculter, Ardoe, by N bank of R Dee	NJ889501760	2019	Loizou, T.
Glen Dye, Charr, by Water of Dye	NO61608298	2021	Elston, D.
Fettercairn, wooded gorge of R North Esk, riverside rocks	NO59697133	2019	Elston, D.
Marykirk, N side of R North Esk	NO68236573	2019	Marriott, R.
Blackhall, by Fettercairn, Edzell Airbase	NO663959 NO66J	1983 1987	Marren, P. Pritchard, J.

**M086 *Salix myrsinifolia* x *phylicifolia* = *S. x tetrapla* Walker****A Hybrid Willow****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 2003 to 2012**Habitat** Riverine scrub.

**Commentary** Woody shrub intermediate in form between its parents. Locally rare, only recorded by the River Dee where both parents grow. Elsewhere largely restricted to upland areas, possibly under-recorded due to a desire to assign specimens to species, with recent records from Glen Clova and Barry Links (Angus), also from near Cabrach, Glass and Huntly (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Maryculter, by R Dee	NJ843001	2012	Welch, D.
Banchory, by R Dee	NO698952	2003	Welch, D.

**M087 *Salix phylicifolia* L.**

Tea-leaved Willow

Local Origin Native

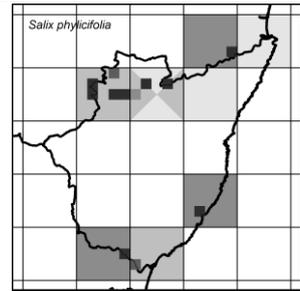
National Status -, -, -

Local Status LS; 8 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/5/6

Earliest to Latest Record (or start and end of intervals) 1880 to 2023

Habitat River banks.

**Commentary** Woody shrub, often small, the twigs glossy, the leaves green above and glaucous below, not feeling thin and with stipules not persisting, the ovaries/seed capsules hairy. Locally scarce, only recorded from beside the River Dee and the River North Esk, sometimes rooting in the watercourse and probably derived from upstream. Elsewhere widespread in upland areas from Yorkshire northwards, including hill areas of Angus and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Marykirk, by R North Esk	NO6865	2018	Elston, D.
Inverbervie, Upper Mill, by Bervie Water, N bank	NO82727330	2023	Elston, D.
Woodend, by R Dee	NO632959	2014(2023)	Welch, D.
Blackhall, Glenbogle, bank of R Dee	NO661957	2012	Welch, D.
Banchory, north bank of R Dee	NO68149592	2020	Elston, D.
Durris, by R Dee at Balbridie	NO735960	2003	Welch, D.
Kirkton of Durris, by R Dee	NO772967	2008	Welch, D.
Ardoe, by R Dee	NJ89470231	2020	Elston, D.
Morphie, banks of R North Esk	NO717621	1999	Welch, D.
Glassel, by Burn of Canny	NO661982	1978	Smith, M.
Banchory, confluence of R Feugh and R Dee	NO702953	1958	Chater, A.
Banchory-Devenick Parish [perhaps in NJ80]	NJ90	1880-1919	Trail, J.
Maryculter Parish, along R Dee [perhaps in NJ80]	NO89	1880-1919	Trail, J.

**M088 *Euphorbia helioscopia* L.**

Sun Spurge

Local Origin Archaeophyte

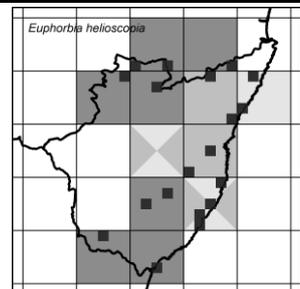
National Status -, -, SBL

Local Status LO; 11+ Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 9/7/5

Earliest to Latest Record (or start and end of intervals) 1950 to 2023

Habitat Arable fields, disturbed ground.

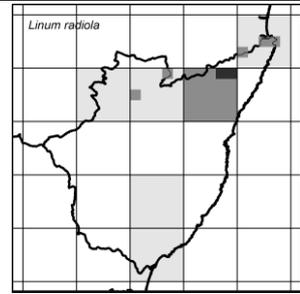
**Commentary** Small, erect annual, the leaves broad and rounded, the inflorescence flat-topped, umbelliferous, the flowers individually small, yellow-green, surrounded by broad, leafy bracts. Locally frequent, occurring widely in arable areas. Elsewhere widespread and frequent where arable farming is still undertaken, but declining in range particularly in Scotland as arable farming has become concentrated on more productive land.



Location	Grid Ref	Year	Recorder / Reporter
<b>SAMPLE</b>			
Luthermuir, W of, field margin	NO64426859	2022	Elston, D.
St Cyrus NNR	NO7463	2015	Meek, E.
Inverbervie, Kinghornie, arable field	NO83917272Ø	2011	Green, I.
Auchenblae, Pittarrow tetrad	NO7274	2021	Elston, D.
Stonehaven, arable edge near Toucks	NO8484	2013	Welch, D.
Maryculter, earth heap at farm dump	NO852984	2013	Welch, D.
Muchalls, field margin E of Muchalls Castle	NO89599193	2023	Elston, D.
Kingcausie, Jockston, margin of barley field	NJ898011	2004	Waddell, J.
Crathes, arable field in kale	NO756966	2006	Welch, D.
Raemoir, arable field	NO6899	2011	Welch, D.

**M089 *Linum radiola* L.****Allseed****Local Origin** Native**National Status** NT, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2015**Habitat** Wet, disturbed, ground.

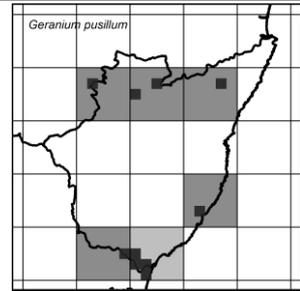
**Commentary** Small annual, the stems erect, often much-branched, the leaves small, opposite, the inflorescence a mass of tiny white flowers maturing to spherical seed pods. Locally rare, once widespread but greatly declined and not recorded between 1860 and 2005 when rediscovered at a single site. Elsewhere with a very local, mostly coastal, distribution, recorded recently from eight and two tetrads in South and North Aberdeenshire respectively but not in Angus.



Location	Grid Ref	Year	Recorder / Reporter
Maryculter, wet bare earth in quarry floor	NO879993	2015	Welch, D.
<i>St Cyrus</i>	NO76	1820-1859	
<i>Benholm, moor [perhaps in NO76]</i>	NO77	1820-1859	Chrystall, L.
<i>Nigg, near new church</i>	NJ90M	1820-1859	Dickie, G.
<i>Banchory-Devenick, embankment near church</i>	NJ9002	1820-1859	Stephen
<i>Loch of Park</i>	NO7698	1820-1859	Adams, F.
<i>Banchory, Brig o' Feugh, marsh</i>	NO79C	1820-1859	Adams, F.
<i>Strachan</i>	NO69	1878	Sim, T.

**M090 *Geranium pusillum* L.****Small-flowered Crane's-bill****Local Origin** Native**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/9/9**Earliest to Latest Record (or start and end of intervals)** 1987 to 2023**Habitat** Disturbed ground.

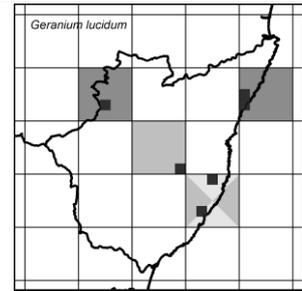
**Commentary** Low-growing annual, softly hairy, the leaves palmate with a circular outline and deeply divided segments, the pedicels with short, glandular hairs, the flowers small with mauve-pink petals divided to half-way. Locally scarce, only once recorded prior to 2000, now with widely scattered records from lowland areas. Elsewhere widespread and generally frequent in lowland areas, becoming less frequent and mostly near the east coast in the north, with recent records from seven tetrads in Angus and six in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Marykirk, on gravel by R North Esk	NO68926490	2019	Elston, D.
Morphie, waste ground in curtilage at Canterland	NO707648	2016	Welch, D.
Inverbervie, Kinghornie	NO83487259Ø	2011	Green, I.
Maryculter, disturbed verge	NO865964	2018	Welch, D.
Crathes, disturbed ground at roadside	NO749963	2019	Welch, D.
Banchory, in cemetery	NO707957	2006	Green, I.; Duncan, M.; Dixon, N.
Woodend, trackside	NO63759710	2023	Elston, D.

**M091 *Geranium lucidum* L.****Shining Crane's-bill****Local Origin** Native**National Status** -, -, -**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/3**Earliest to Latest Record (or start and end of intervals)** 1950 to 2023**Habitat** Mortared walls or basic rocks.

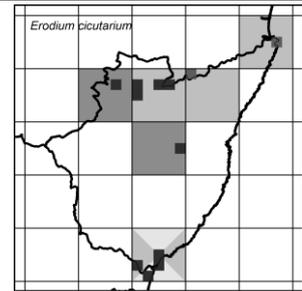
**Commentary** Much-branched annual, the leaves with rounded outline, deeply lobed, shiny with patent hairs on the upper surface, the flowers quite small with five bright pink petals. Locally scarce, recorded from three sites not far from the coast and two inland, perhaps sometimes a garden escape. Elsewhere widespread and generally frequent south of the Highland Boundary Fault but absent from much of north and west Scotland, recorded recently from 13 tetrads in Angus and 7 in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Strachan, Whitestone	NO64039240	2021	Green, I.
Newtonhill, roadside along railway bridge wall	NO912942	2020	Peaker, A.
Muchalls, by Pheppie Burn	NO90429257	2019	Peaker, A.
Drumlithie, foot of wall of Old Red Sandstone	NO786810	2012	Welch, D.
Mill of Barras, roadside	NO85037931	2023	Elston, D.
Inverbervie, foot of side wall of old bridge	NO831729	2012	Welch, D.

**M092 *Erodium cicutarium* (L.) L'Hér.****Common Stork's-bill****Local Origin** Native**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/9/9**Earliest to Latest Record (or start and end of intervals)** 1950 to 2021**Habitat** Bare, usually sandy, ground including riverine shingle.

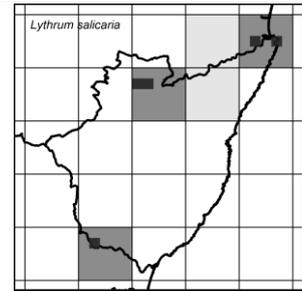
**Commentary** Short annual, the stems prostrate, the leaves pinnately lobed with toothed leaflets, the flowers with five pink petals developing a seed-case with a long, forward-projecting, beak. Locally scarce, mostly occurring at low densities, the largest population is at St Cyrus NNR. Elsewhere widespread and generally frequent in lowland areas, mostly coastal in Scotland, recorded recently from 15 and 14 tetrads in Angus and South Aberdeenshire respectively.



Stone of Morphie, bare ground	NO717627	2015	Welch, D.
St Cyrus NNR	NO76L	2016	Turner, A.; Turner, R.
Glenbervie, restored arable after pipeline laid	NO780843	2012	Welch, D.
Crathes, uncropped arable field	NO763966	2006	Welch, D.
Crathes, disturbed ground in old railway yard	NO748962	2003	Welch, D.
Banchory, waste ground recently arable	NO719967	2012	Welch, D.
Banchory, by R Dee	NO70859574Ø	2006	Green, I.
Inchmarlo, by R Dee	NO67159635Ø	2006	Green, I.
Nigg, Girdle Ness, rock outcrop	NJ963057	1995	Welch, D.
Durris, by R Dee below Park Bridge	NO801987	1995	Welch, D.
Banchory, riverbank	NO706956	1978	Welch, D.

**M093 *Lythrum salicaria* L.****Purple-loosestrife****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/4/4**Earliest to Latest Record (or start and end of intervals)** 1914 to 2020**Habitat** Damp grassland.

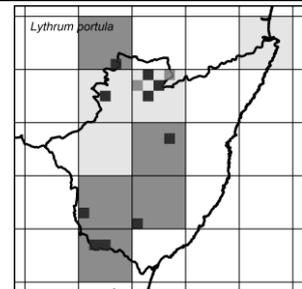
**Commentary** Tall, tufted perennial, the stems erect, square, the leaves narrowly triangular, the inflorescence narrowly cylindrical comprising densely packed flowers with bright pink petals. Locally scarce, close to the River Dee and River North Esk, certainly introduced at one site but at most others appearing to be native. Elsewhere widespread and frequent in much of lowland Britain, in Scotland mostly in the west or near the east coast, recorded recently from five tetrads in Angus and from four in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, by pond in Capo Plantation	NO63126677	2018	Elston, D.
Kincorth, vegetated shingle bank of R Dee	NJ93260409	2020	Elston, D.
Crathes, roadside	NO726972	2006	Welch, D.
Banchory, by path E side of houses	NO705966	2006	Green, I.; Duncan, M.
<i>Maryculter (hectad)</i>	NO89	1950-1960	
<i>Ardoe, by R Dee [perhaps in NJ90]</i>	NJ80	1914	Trail, J.
<b>INTRODUCED / PLANTED</b>			
Nigg, St Fittick's Community Park	NJ96170480Ø	2019	Loizou, T.

**M094 *Lythrum portula* (L.) D.A.Webb****Water-purslane****Local Origin** Native**National Status** -, -, -**Local Status** LS; 10 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 6/8/8**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Damp, open ground.

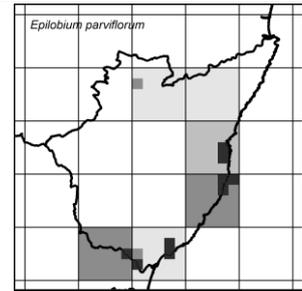
**Commentary** Red-tinged annual, the stems procumbent, the leaves small, spoon-shaped, the flowers tiny, unstalked in the leaf axils. Locally scarce, a mobile colonist recorded from widely scattered sites. Elsewhere widespread but only locally frequent, with many records in a band from Aberdeen to Glasgow, recorded recently from 17 tetrads in Angus and from 16 in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Inglismaldie, margins of pond in Capo Wood	NO631667	2019	Elston, D.
Inglismaldie, Inverurie Wood, wet path	NO64696799	2022	Elston, D.
Fettercairn, margins of lochan NE of The Burn	NO601724	2019	Elston, D.
Laurencekirk, Denlethen Wood, dried-up pond	NO70447081	2022	Elston, D.
Fetteresso Forest, monad near Quithel	NO7686	2017	Elston, D.; Cox, J.
Blackhall Forest, pool in gravel pit	NO645958	2002	Welch, D.
Raemoir, marsh	NJ671002	2004	Welch, D.
Hirn, wet rut in track	NO720986	2014	Welch, D.
Tilquhillie, pool near Knappach	NO72599514Ø	2006	Green, I.
Crathes, pool in sandpit	NO746962	2012	Welch, D.
<i>Bridge of Dye (hectad)</i>	NO68	1950-1960	
<i>Loch of Leys</i>	NO7097	1820-1859	Brichan, J.
<i>Loch of Park</i>	NO7698	1820-1859	Brichan, J.
<i>Nigg Parish</i>	NJ90	1880-1919	Trail, J.

**M095 *Epilobium parviflorum* Schreb.****Hoary Willowherb****Local Origin** Native**National Status** -, -, -**Local Status** LS; 8 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/7/8**Earliest to Latest Record (or start and end of intervals)** 1820 to 2021**Habitat** Flushes, marshes.

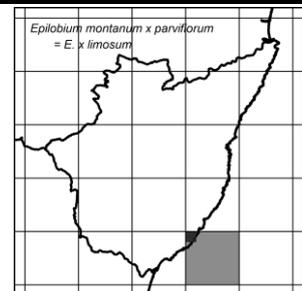
**Commentary** Short hairy perennial, the leaves unstalked but neither clasping the stem nor decurrent, the flowers pale pink. Locally scarce, mostly at the coast where it occupies a distinct niche in soaks just above the shore, apparently lost from most inland sites. Elsewhere a widespread and frequent in most lowland areas but not so in north-east Scotland with recent records from eight and six tetrads in Angus and South Aberdeenshire respectively.



Location	Grid Ref	Year	Recorder / Reporter
Crawton, coast	NO88027979	2019	Elston, D.
Dunnottar, Castle Haven, soak at base of cliffs	NO87938423	2020	Elston, D.
Catterline, coast	NO87397849	2018	Elston, D.
Braidon Bay, seepage on shore	NO86897747	2018	Elston, D.
Den Finella	NO76586770Ø	2014	Green, I.
St Cyrus NNR, wet ground by stream	NO76126494	2021	Elston, D.; Jones, L.; Peaker, A.
Morphie, roadside	NO709639	2004	Welch, D.
Marykirk, roadside	NO691652	2004	Welch, D.
<i>Loch of Leys</i>	NO7097	1820-1859	Adams, F.
<i>Muchalls, coast [perhaps in NO99] including at Findon</i>	NO89	1820-1859	Farquharson, J.
<i>St Cyrus, Jackston</i>	NO7767	1820-1859	Stephen
<i>Den of Morphie</i>	NO76C	1820-1859	Stephen

**M096 *Epilobium montanum x parviflorum* = *E. x limosum* Schur****A Hybrid Willowherb****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 2020 to 2020**Habitat** Bare ground.

**Commentary** Erect perennial inheriting the patent-hairy stems of the *Epilobium parviflorum* (Hoary Willowherb) parent and the large, pale flowers of the *Epilobium montanum* (Broad-leaved Willowherb) parent, the stigma lobes ascending and so intermediate between the parents. Locally rare, two plants found in a car park adjacent to old woodland in an old red sandstone den. Elsewhere records are widespread but very infrequent, mostly south of the Scottish border, ours being only the ninth ever in Scotland.



Location	Grid Ref	Year	Recorder / Reporter
Benholm, car-park edge by den	NO807689	2020	Welch, D.

**M097 *Epilobium alsinifolium* Vill.**

Chickweed Willowherb

Local Origin Native

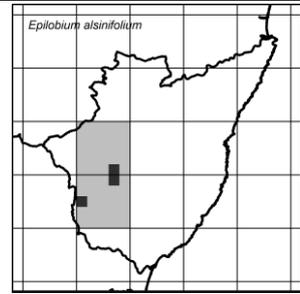
National Status -, -, -

Local Status LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/5

Earliest to Latest Record (or start and end of intervals) 1971 to 2019

Habitat Upland flushes.

**Commentary** Short, rhizomatous perennial, the leaves broad and distinctly toothed, the flowering stems shortly erect bearing deep pink flowers. Locally rare, only known from the hills between Fettercairn and Glen Dye. Elsewhere a northern species widely distributed in upland areas including hill districts of Angus and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Glensaugh, rills along Slack Burn	NO668792	2003(2019)	Welch, D.
Fettercairn, hills NW of, rill	NO61727580	2019	Elston, D.

**M098 *Epilobium anagallidifolium* Lam.**

Alpine Willowherb

Local Origin Native

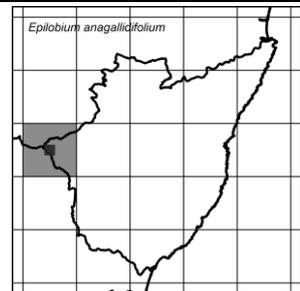
National Status -, -, -

Local Status LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1

Earliest to Latest Record (or start and end of intervals) 2019 to 2019

Habitat Upland flushes.

**Commentary** Low-growing perennial with creeping leafy stolons bearing small, scarcely-toothed leaves and pinkish flowers somewhat hanging to the side. Locally rare, in two flushes on the north-east flank of Mount Battock, well established and likely to have been present but unrecorded for quite some time. Elsewhere a northern species widely distributed and frequent in the Scottish Highlands, including in hill areas of Angus and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Mount Battock, north-facing flush	NO55798513	2019	Elston, D.

**M099 *Circaea lutetiana* L.**

Enchanter's-nightshade

Local Origin Native

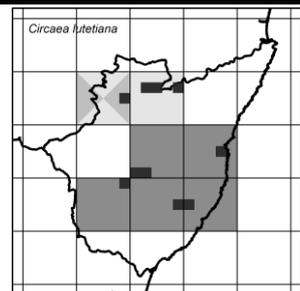
National Status -, -, -

Local Status LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/6/6

Earliest to Latest Record (or start and end of intervals) 1820 to 2023

Habitat Woodland on rich soils.

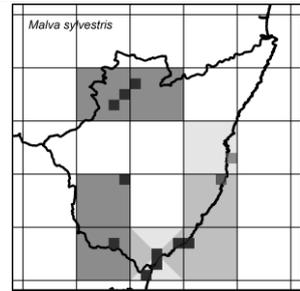
**Commentary** Patch-forming perennial, the stems erect, rather short with (vertically) several layers leaves, each weakly toothed and with a hairy petiole, most stems ending in a diffuse inflorescence of small white flowers. Locally scarce, at scattered locations, showing some association with estate policies. Elsewhere generally widespread and frequent except in the northern half of Scotland where it is local, recorded recently from near Monifieth, Forfar and Pearsie (Angus), also from Aberdeen, near Dyce and Finzean (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Arbuthnott	NO79327494Ø	2010	Green, I.
Drumtochty, Strath Finella	NO69397993Ø	2011(2023)	Green, I.
Auchenblae, Glenfarquhar, woodland edge	NO72378123	2023	Elston, D.
Dunnottar Woods, deciduous woodland	NO86638494	2021	Elston, D.
Durris, woodland near Durris House	NO79639666Ø	2010	Green, I.
Crathes, woodland	NO74229635	2018	Welch, D.
Auchattie, by track in conifer forest	NO68659429	2020	Elston, D.; Cox, J.
Banchory [perhaps in NO69]	NO79	1820-1836	Murray, A.

**M100 *Malva sylvestris* L.****Common Mallow****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LS; 8 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 6/10/10**Earliest to Latest Record (or start and end of intervals)** 1820 to 2019**Habitat** Disturbed ground and dry grassland.

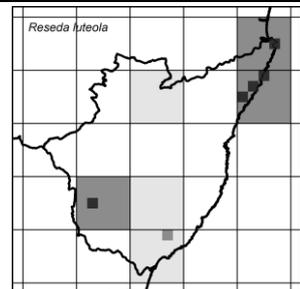
**Commentary** Tufted perennial, the stems ascending, the leaves palmate, shallowly-lobed, the flowers with five pink, shallowly notched petals. Locally scarce, mostly in the lowlands and close to habitation. Elsewhere widespread and frequent in the south, in Scotland mostly coastal and mainly in the east, recorded recently from seven tetrads in lowland Angus, also along the coast of the Moray Firth from St Combs (North Aberdeenshire) westwards.



Location	Grid Ref	Year	Recorder / Reporter
Glensaugh, old curtilage	NO683795	2005	Welch, D.
Strachan, side of new track	NO668926	2009	Welch, D.
Banchory, flowerbed	NO696955	2011	Welch, D.
Banchory, roadside	NO700969	2017	Welch, D.
Johnshaven, roadside at N end of village	NO80086719	2019	Elston, D.
St Cyrus NNR	NO76L	2016	Turner, A.; Turner, R.
Morphie, arable strip unsown in year	NO720619	2015	Welch, D.
Balmakewan, farmyard	NO66596635	2019	Elston, D.
Catterline, grassland	NO87U	1993	Welch, D.
Johnshaven, coastal grassland	NO792667	1995	Welch, D.
Dunnottar Castle	NO881838	1954	Scott, G.

**M101 *Reseda luteola* L.****Weld****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/5/6**Earliest to Latest Record (or start and end of intervals)** 1820 to 2018**Habitat** Rough, recently disturbed ground.

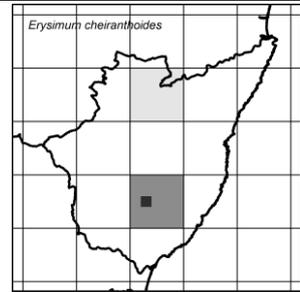
**Commentary** Tall perennial, the leaves long and strap-shaped, the inflorescence long, narrowly cylindrical with densely-packed cream flowers. Locally scarce, only in lowland sites. Elsewhere widespread and frequent in most of lowland Britain excepting in Scotland where it is local north of the Highland Boundary Fault, recorded recently from 12 tetrads in Angus but in South Aberdeenshire only from Dyce and near Westhill whilst in North Aberdeenshire only from Inverurie and Peterhead.



Location	Grid Ref	Year	Recorder / Reporter
Torry, disturbed bank at allotments carpark	NJ960055	2008	Welch, D.
Findon, waste ground	NO932978	2018	Welch, D.
Cammachmore, roadside	NO905943	2004	Welch, D.
Fettercairn, repaired roadside	NO628748	2017	Welch, D.
Banchory [perhaps in NO69]	NO79	1820-1859	Adams, F.
Johnshaven, field half mile NW Brotherton	NO7768	1820-1859	Stephen
Benholm [perhaps in NO76, NO86, NO87]	NO77	1820-1859	Stephen
St Cyrus, base of cliff slope by dune pasture	NO76	1956	Henderson, A.

**M102 *Erysimum cheiranthoides* L.****Treacle mustard****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1875 to 2021**Habitat** Arable fields.

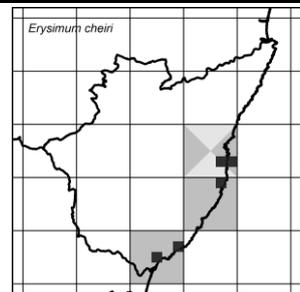
**Commentary** Erect annual, the leaves grey-green and narrowly ovate, the inflorescence branched, the flowers individually small with yellow petals and hairy sepals, developing long, narrowly-cylindrical fruit. Locally rare, discovered amongst a field of mixed Brassicas at Westerton having been unrecorded for nearly 150 years. Elsewhere widespread in lowland arable areas, rather frequent in the south-east, becoming less frequent in the north and west, in Scotland widespread but local, almost absent north and west of the Great Glen.



Location	Grid Ref	Year	Recorder / Reporter
Auchenblae, in brassica crop at Westerton	NO72097491	2021	Elston, D.
Banchory [perhaps in NO69]	NO79	1875	Trail, J.

**M103 *Erysimum cheiri* (L.) Crantz****Wallflower****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Thin soils in warm, sunny spots on walls or cliffs.

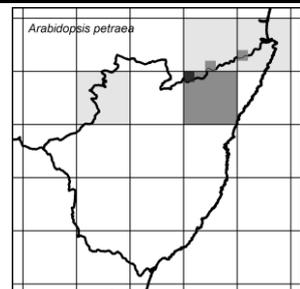
**Commentary** Branched, woody perennial, the leaves linear and in whorls, the flowers large and colourful, mostly yellow, orange or brown. Locally scarce, long known from by Dunnottar Castle and now recorded southwards to St Cyrus. Elsewhere widespread and often frequent in the south, in Scotland local, mainly coastal, eastern, recorded recently from Bodin in Angus and along the Moray Firth coast from Banff westwards.



Location	Grid Ref	Year	Recorder / Reporter
Dunnottar Castle	NO8883	2023	Harding, M.
Catterline, cliffs	NO87257838	2020	Elston, D.
Johnshaven, wall on main entrance road	NO795670	2011	Welch, D.
St Cyrus NNR, cliffs	NO748643	2020	Elston, D.

**M104 *Arabidopsis petraea* (L.) V.I.Dorof.****Northern Rock-cress****Local Origin** Native**National Status** VU, NS, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2007**Habitat** Shingle by the River Dee.

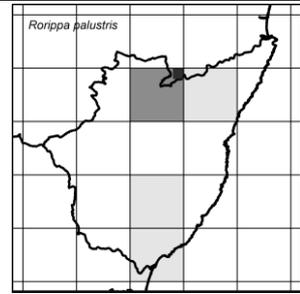
**Commentary** Small, tufted perennial, the leaves in a basal rosette, deeply lobed, the flowers with four large, white petals. Locally rare, not establishing but presumably seeded from upstream. Elsewhere a very local plant of high mountains including those in upper Deeside plus a strong isolated population at Coyles of Muick (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Durris, sandy shingle by R Dee opposite Dalmaik	NO801986	2007	Welch, D.
Kingcausie	NJ80	1847	Syme, J.
Banchory-Devenick, island in Dee 3 miles W of Aberdeen	NJ9002	1820-1859	MacGillivray, P.
Banchory [perhaps in NO79]	NO69	1886	Wilkinson, W.

**M105 *Rorippa palustris* (L.) Besser****Marsh Yellow-cress****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1880 to 2023**Habitat** Open marshy ground, riversides.

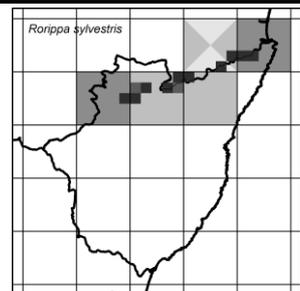
**Commentary** Perennial, some stems creeping with a basal rosette sending up tall erect stems, the lower stem leaves deeply lobed, the upper stem leaf toothed but not lobed, the flowers with four small yellow petals producing cylindrical seed pods that are longer than their pedicels. Locally rare, rediscovered in 2022 after an absence of over 60 years which is difficult to explain given its presence in adjacent vice counties. Elsewhere widespread and generally frequent south of the Highland Boundary Fault, recorded recently from several sites in both Angus and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Durris, Park Bridge, margin of pond below Keith's Tower	NO798982	2023	Elston, D.
<i>St Cyrus (hectad)</i>	NO76	1950-1960	
<i>St Cyrus, along R Esk</i>	NO76	1880-1919	Trail, J.
<i>Laurencekirk, by mill dam near Garvock boundary</i>	NO77	1909	Trail, J.
<i>Maryculter (hectad)</i>	NO89	1950-1960	

**M106 *Rorippa sylvestris* (L.) Besser****Creeping Yellow-cress****Local Origin** Native**National Status** -, -, -**Local Status** LS; 8 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/7/9**Earliest to Latest Record (or start and end of intervals)** 1959 to 2021**Habitat** Stony ground by the River Dee.

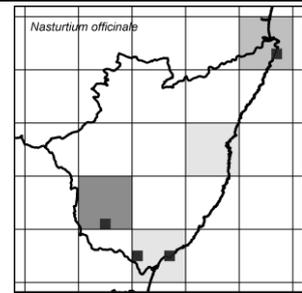
**Commentary** Short perennial, the stems creeping, the leaves pinnately divided, the flowers small with four yellow petals producing long, narrow seed-pods. Locally scarce, recorded from Inchmarlo to Aberdeen. Elsewhere widespread but rather infrequent south of the Highland Boundary Fault, very local further north with a particular stronghold on the River Dee (South Aberdeenshire), also recorded recently from the River South Esk (Angus) and the River Spey at Fochabers (Moray).



Location	Grid Ref	Year	Recorder / Reporter
Kincorth, Tollohill, pond S of R Dee	NJ9202	2004	Green, I.; Madden, D.
Ardoe, shingle island in R Dee	NJ89420209	2020	Elston, D.
Banchory-Devenick, by R Dee	NJ902024	2007	Welch, D.
Kingcausie Island	NJ867012	2005	Welch, D.
Durris, edge of R Dee upstream of Park Bridge	NO79619800	2021	Elston, D.
Kirkton of Durris, by R Dee	NO77139671Ø	2010	Green, I.
Crathes, shingle on N bank of R Dee	NO722964	2006	Green, I.; Duncan, M.; Watson, A.
Banchory, on S bank of R Dee	NO698952	2006	Welch, D.

**M107 *Nasturtium officinale* W.T.Aiton****Water-cress****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/6/6**Earliest to Latest Record (or start and end of intervals)** 1948 to 2021**Habitat** Marshy ground on fertile soils.

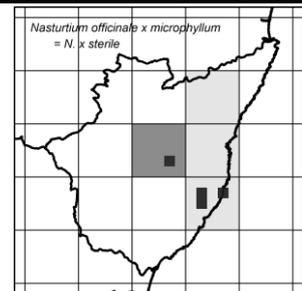
**Commentary** Patch-forming perennial, the leaves familiar as a food plant, the flowers small, white, producing rather swollen pods with seeds in two parallel rows along the length of the pod. Locally scarce, some *Nasturtium officinale* s.s. records not matched by any records of the more widespread *Nasturtium microphyllum* have been withheld pending further investigation. Elsewhere widespread and frequent in lowland areas, recorded recently from 34 tetrads in Angus and 26 in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Altens, by coast at Doonies	NJ966103180	2019	Loizou, T.
Esslie Moss, marsh on edge of willow scrub	NO64767100	2020	Elston, D.
Den of Morphie, marsh by eutrophic drain from farmland	NO70766422	2020	Elston, D.
St Cyrus NNR, wet ground by stream	NO76126494	2021	Elston, D.; Jones, L.; Peaker, A.
Stonehaven (hectad)	NO88	1950-1969	
St Cyrus, Laurieston	NO7765	1948	Graham, R.

**M108 *Nasturtium officinale* x *microphyllum* = *N. x sterile* (Airy Shaw) Oefelein****Hybrid Water-cress****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1930 to 2023**Habitat** Marshes on rather fertile soils.

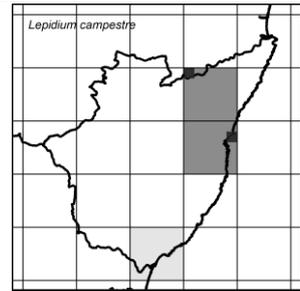
**Commentary** Patch-forming perennial, the leaves familiar as a food plant, the flowers small, white, producing thin, distorted pods containing few well-formed seeds. Locally scarce but probably under-recorded especially if the many non-flowering patches encountered include a substantial proportion of hybrids. Elsewhere widespread but infrequent with a stronghold in the Scottish Central Belt, recorded recently from 34 tetrads in Angus and 26 in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Inverbervie, N of, by Broggie Burn at Clashendrum	NO83237548	2023	Elston, D.
Glenbervie, marsh near Jacksbank	NO77388371	2021	Elston, D.
Roadside of Kinneff, Loch Ery	NO83957665	2020	Elston, D.
Braidon Bay, by stream on shore	NO86737718	2020	Elston, D.
Maryculter (hectad)	NO89	1950-1960	
Stonehaven, by Carron Water near	NO88	1957	Morgan, B.; Duncan, U.

**M109 *Lepidium campestre* (L.) W.T.Aiton****Field Pepperwort****Local Origin** Archaeophyte**National Status** -, -, SBL**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1889 to 2023**Habitat** Disturbed ground.

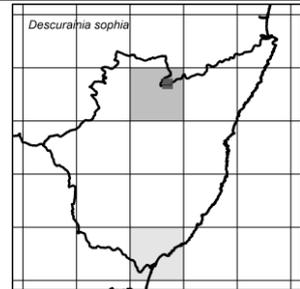
**Commentary** Annual or biennial, the stems erect, the leaves clasping the stem, toothed at the base in upwardly inclined, the inflorescence much branched, the flowers with four white petals growing above many whorls of small, strongly winged seed pods. Locally rare, rediscovered on Stonehaven Golf Course where it may have been accidentally introduced, otherwise only twice recorded from St Cyrus. Elsewhere widespread and rather frequent in the south east, becoming local and lost from many former sites further north and west, records north of the Scottish Central Belt are unusual but a discovery in 2016 on the Angus side of the River Esk near Edzell suggests it may yet be re-found.



Location	Grid Ref	Year	Recorder / Reporter
Stonehaven Golf Course, side of raised tee by cliff	NO88668730	2022	Elston, D.; Blow, C.; Peaker, A.
Durris, E of Park Bridge, rough ground by gate to quarry	NO80079814	2023	Elston, D.
<i>St Cyrus (hectad)</i>	NO76	1950-1960	

**M110 *Descurainia sophia* (L.) Webb ex Prantl****Flixweed****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1835 to 1995**Habitat** Arable field margins.

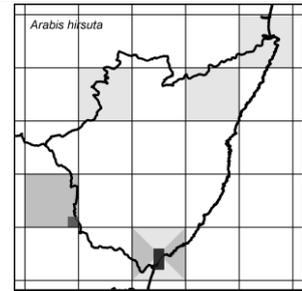
**Commentary** Annual or biennial, the leaves twice-pinnate with narrow lamina, the inflorescence branching and comprising elongating flower heads, the petals small and yellow, developing linear seed cases. Locally with no recent records, with only two records ever. Elsewhere, widespread but local with strongholds in east England and around Inverness, recently recorded on the Angus coast both north and south of Montrose so may be found in Kincardineshire soon.



Location	Grid Ref	Year	Recorder / Reporter
Crathes, arable field edge	NO763966	1995	Welch, D.
<i>St Cyrus</i>	NO76	1835-1845	New Statistical Account

**M111 *Arabis hirsuta* (L.) Scop.****Hairy Rock-cress****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2021**Habitat** Bare, droughted, base-rich places on sand and rocks.

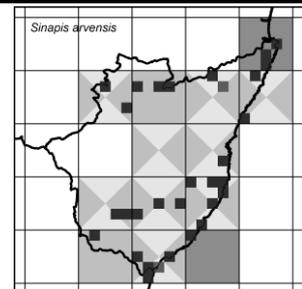
**Commentary** Tufted biennial or perennial, the leaves hairy, toothed, near-horizontal in the basal rosette but near-vertical up the erect stems, the inflorescence a small head of contiguous flowers with white petals developing into linear seed cases. Locally rare, now coastal with a strong population at St Cyrus but previously recorded along the valleys of the River Dee and River North Esk. Elsewhere widespread but local in areas with lime-rich rocks, the populations still found upstream in both our major river valleys could recolonise the Kincardineshire sections of either.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, dunes	NO75036416	2021	Peaker, A.
Fettercairn, wooded gorge of R North Esk	NO57SE	1982	Bayne, D.
Strachan to Inchmarlo (hectad)	NO69	1957	Sommerville, A.
Banchory [perhaps in NO79]	NO69	1820-1859	Brichan, J.
Maryculter Parish, along R Dee [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Banchory-Devenick Parish, along R Dee	NJ90	1880-1919	Trail, J.

**M112 *Sinapis arvensis* L.****Charlock****Local Origin** Archaeophyte**National Status** -, -, SBL**Local Status** LO; 11+ Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 13/23/20**Earliest to Latest Record (or start and end of intervals)** 1950 to 2023**Habitat** Field edges and rough ground in the lowlands.

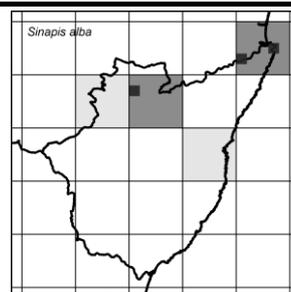
**Commentary** Large annual, the stems erect, the leaves deep green, glossy, rather toothed, the branched inflorescence comprising flowers with four bright yellow petals developing narrowly-cylindrical, ascending seed pods. Locally rather widespread in lowland areas. Elsewhere widespread and generally frequent except in upland areas, much diminished where arable farming has declined due to concentration in areas with more productive soils.



Location	Grid Ref	Year	Recorder / Reporter
<b>SAMPLE</b>			
Strachan, arable field near Gellan	NO6992	2017	Welch, D.
Crathes Castle, arable edge	NO74009684Ø	2010	Loizou, T.
Maryculter, Jellies Hillock	NO84769932Ø	2010	Green, I.
Nigg, disturbed ground by roadside	NJ96800408	2021	Elston, D.
Cove Bay	NJ956007	2020	Routledge, G.
Barras, W of, field margin at Upper Pitforthie	NO81427931	2023	Elston, D.
Roadside of Kinneff area	NO85427891	2022	Espie, A.
Haughs of Benholm	NO81396887Ø	2011	Green, I.
Laurencekirk, Haughhead tetrad	NO6873	2022	Elston, D.
Morphie, by R North Esk	NO72386214Ø	2012	Green, I.

**M113 *Sinapis alba* L.****White Mustard****Local Origin** Archaeophyte**National Status** -, -, SBL**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/3**Earliest to Latest Record (or start and end of intervals)** 1820 to 2015**Habitat** Disturbed ground.

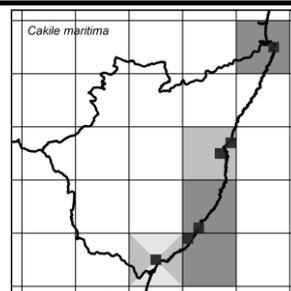
**Commentary** Large annual, the stems erect, the leaves deep green, glossy, pinnately-lobed with angular, toothed leaflets, the inflorescence branched, comprising flowers with four bright yellow petals developing into broadly cylindrical, hairy seed pods. Locally rare and perhaps never becoming well-established. Elsewhere widespread but frequent only in the south-east, becoming increasingly local further north, in Scotland mainly eastern and coastal, contracting nationally as arable farming becomes concentrated on more productive soils, recorded recently from only two sites in Angus (Boddin and north of Alyth) and one site in South Aberdeenshire (Kintore).



Location	Grid Ref	Year	Recorder / Reporter
Nigg Bay, earth bank at roadside	NJ966049	2015	Welch, D.
Banchory-Devenick, Banchory House, vegetable garden	NJ915023	2007	Welch, D.
Banchory, Lochton of Leys, relic in setaside field	NO702973	2006	Welch, D.
Stonehaven, field near Dunnottar Castle	NO88	1820-1859	Stephen
Strachan	NO69	1873	Sim, T.

**M114 *Cakile maritima* Scop.****Sea Rocket****Local Origin** Native**National Status** -, -, -**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/4/3**Earliest to Latest Record (or start and end of intervals)** 1950 to 2022**Habitat** Coastal sands, often the most seaward plant on the seashore.

**Commentary** Sprawling annual, the leaves glabrous, grey-green, slightly lobed leaves, the inflorescence branching and composed of flowers with four pinkish-white developing pointed-ovoid seed cases. Locally scarce, apparently expanding in distribution but apparently not occupying all available habitat. Elsewhere widespread and frequent round almost the entire British coastline.



Location	Grid Ref	Year	Recorder / Reporter
Nigg Bay, sandy shore	NJ9604	2006	Welch, D.
Garron Point, shore	NO8987	2022	Elston, D.; Blow, C.; Peaker, A.
Stonehaven, seafront	NO8785	2013	Meek, E.
Gourdon, shore	NO82937079	2020	Elston, D.; Cox, J.
Haughs of Benholm	NO81446887Ø	2011	Green, I.
St Cyrus NNR, strand line	NO74956400	2004	Waddell, J.; Ross, A.

**M115 *Crambe maritima* L.**

Sea-kale

Local Origin Native

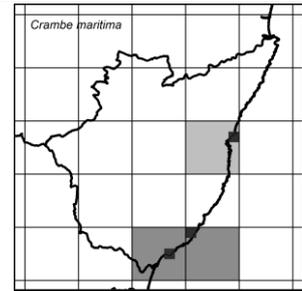
National Status -, -, -

Local Status LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/4

Earliest to Latest Record (or start and end of intervals) 1988 to 2022

Habitat Coastal shingle.

**Commentary** Large perennial with thick stems, the leaves broad, glaucous and wavy-edged, the inflorescence comprising dense, broad heads of small white-petalled flowers. Locally rare, sometimes now used in coastal landscaping schemes and may escape from these. Elsewhere coastal, widespread and sometimes frequent but very local in the north, recently recorded only once in Angus at Arbroath and in three tetrads round Peterhead and Fraserburgh in North Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Garron Point, shore	NO89058796	2022	Elston, D.; Blow, C.; Peaker, A.
Benholm, shingle	NO81306857	2018	Smedley, M.
St Cyrus, top of shingle	NO760649	2011	Welch, D.

**M116 *Raphanus raphanistrum* L.**

Radish

Local Origin Archaeophyte

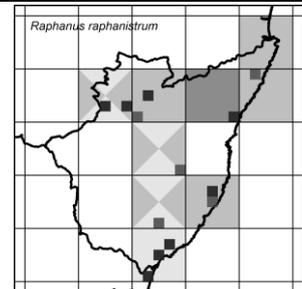
National Status -, -, -

Local Status LS; 8 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/7/7

Earliest to Latest Record (or start and end of intervals) 1950 to 2021

Habitat Arable fields or disturbed ground.

**Commentary** Coarsely hairy annual or biennial, the stems erect, the leaves lobed or pinnate, the flowers each with four widely-spaced pinkish-white petals developing pods with long, curved, beaks in which the shapes of the seeds are clearly visible from the outside. Locally scarce, with sites scattered in arable areas. Elsewhere widespread and frequent particularly towards the south, in Scotland largely coastal north of the Central Belt and lost from many former sites, recently recorded from six tetrads in Angus and nine in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Strachan, setaside	NO656923	2002	Welch, D.
Strachan, E of (tetrad)	NO69W	2004	Welch, D.
Durris, turnip field at Balbridie	NO739958	2015	Welch, D.
Mill of Muchalls, arable field	NO8991	2006	Welch, D.
Kinneff, farm tip	NO856775	2021	Welch, D.
Den Finella	NO76926729Ø	2014	Green, I.
St Cyrus, arable edge	NO7464	2003	Welch, D.
Morphie, arable strip unsown in year	NO720619	2015	Welch, D.
Strachan, turnip field at Midtown	NO705912	1998	Welch, D.
Aberdeen (hectad)	NJ90	1987-1999	Welch, D.
Marywell, SE of	NO9398	1988	Birse, E.L.; Birse, E.M.
Drumlithie, waste ground	NO792810	1998	Welch, D.
Glenbervie, arable field	NO7570	1998	Welch, D.
Kinneff, setaside	NO855750	1997	Picozzi, N.

**M117 *Cochlearia officinalis* subsp. *scotica* (Druce) P.S.Wyse Jacks.****Scottish Scurvygrass****Local Origin** Native**National Status** -, NS, SBL**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1955 to 1999**Habitat** Short coastal grassland.

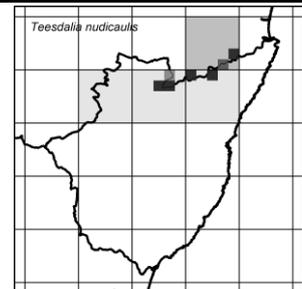
**Commentary** Small biennial or perennial growing in compact tufts, the basal leaves with long petioles and fleshy, truncate-based lamina, the stem leaves with short stalks below, unstalked above, the inflorescence branched with flowers each having four small, lilac, petals. Locally with no recent records, recorded from three hectads from south of Cove Bay to Todhead. Elsewhere restricted to the Scottish coastline from St Abbs Head (Berwickshire) to Arran (Clyde Islands) but with no recent records to the south east of Hopeman and Burghead (Moray). Once considered a distinct species and likely under-recorded since being subsumed into *Cochlearia officinalis* (Common Scurvygrass).



Location	Grid Ref	Year	Recorder / Reporter
Braidon Bay, Todhead, steep short grassland	NO870768	1999	Welch, D.
Dunnottar, grassland close to shore	NO879837	1995	Welch, D.
Portlethen (hectad)	NO99	1955	Robson, N.

**M118 *Teesdalia nudicaulis* (L.) W.T.Aiton****Shepherd's Cress****Local Origin** Native**National Status** NT, -, SBL**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/3**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Disturbed, sandy ground.

**Commentary** Small annual, the leaves in a basal rosette, long-stalked with some small side lobes and a large terminal lobe, inflorescence flat-topped, the flowers comprising four white petals of two very different sizes. Locally scarce, now only by, or close to, the River Dee. Elsewhere widespread but very local, recorded recently in Angus only once (Crombie), in South Aberdeenshire only by, or close to, the River Dee as far upstream as Aboyne and in North Aberdeenshire only at Sands of Forvie.



Location	Grid Ref	Year	Recorder / Reporter
Ardoe, by R Dee, sandy ground on shingle bank	NJ89700257	2020	Elston, D.
Maryculter, old sandpit	NO85019997	2020	Blow, C.; Peaker, A.
Durris, E of Park Bridge, sand by R Dee	NO80189867	2023	Elston, D.
Durris, alluvial terrace	NO771967	2008	Welch, D.
Crathes, rabbit-grazed grassland	NO74579625	2019	Welch, D.
Kingcausie Island	NJ867010	1981	Green, J.
Loch of Park, sandy spots near E end	NO7798	1879	Trail, J.
Crathes, roadside	NO79	1820-1859	Minto, J.
Strachan	NO69	1872	Sim, T.

**M119 *Persicaria lapathifolia* (L.) Delarbre**Pale *Persicaria*

Local Origin Native

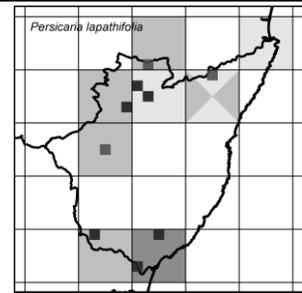
National Status -, -, -

Local Status LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/4/5

Earliest to Latest Record (or start and end of intervals) 1820 to 2020

Habitat Disturbed ground.

**Commentary** Annual, the stems spreading, the leaves petiolate and hairy, the inflorescence comprising short, cylindrical, dense heads of flowers with white petals, the peduncles of these heads having glandular hairs. Locally scarce, widespread but less frequent than formerly, mostly growing as an arable weed. Elsewhere widespread in lowland areas, becoming less frequent towards the north of Scotland and apparently disappearing where arable farming is marginal, recorded recently in six tetrads in Angus and ten in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Morphie, field edge to west of Den	NO70646382	2020	Elston, D.
Garvock, weedy field at Balhagarty	NO756693	2020	Welch, D.
Fettercairn, weedy field near Dalladies	NO627681	2003	Welch, D.
Strachan, arable field	NO6992	2016	Welch, D.
Banchory, Lochton of Leys, setaside field	NO702973	2006	Welch, D.
Banchory, Woodend	NO71849755Ø	2006	Green, I.
Durris, turnip field at Balbridie	NO739958	2015	Welch, D.
Glen Dye, arable field near Brig o` Dye	NO6585	1998	Welch, D.
Hirn, potato field	NJ737006	1995	Welch, D.
Maryculter, former sandpit	NO8599	1998	Welch, D.
Nigg Parish	NJ90	1880-1919	Trail, J.

**M120 *Bistorta vivipara* (L.) Delarbre**Alpine *Bistorta*

Local Origin Native

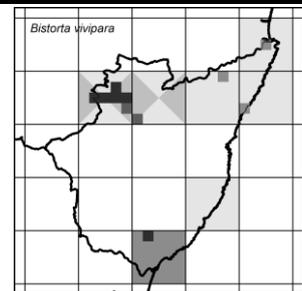
National Status -, -, -

Local Status LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/5/5

Earliest to Latest Record (or start and end of intervals) 1820 to 2021

Habitat Neutral grassland.

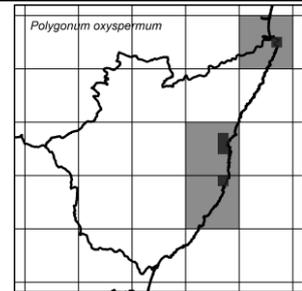
**Commentary** Small perennial, the leaves glossy, simple, the stems ultimately erect bearing a long cylindrical flowerhead comprising bulbils at the base and normal flowers with pale-pink petals above. Locally scarce, once widespread but now only by the River Dee near Banchory with the exception of an outlying site at Garvock. Elsewhere widespread and frequent in upland areas from Mid-west Yorkshire northwards, including upstream in the catchments of the River North Esk (Angus) and the River Dee (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Blackhall, S bank of R Dee	NO63869559Ø	2012	Green, I.
Blackhall, Glenbogle, grassland by R Dee	NO661958	2012	Welch, D.
Auchattie, by R Dee	NO69509527Ø	2006	Green, I.
Garvock, West Bradieston SSSI, grassland	NO72746868	2021	Elston, D.; Peaker, A.; Blow, C.
Strachan, Gellan and NW of	NO6992	1988	Birse, E.L.; Birse, E.M.
Strachan, near Eslie	NO7191	1972	
Kingcausie, Corbie Den, in a meadow at the head	NO8698	1820-1859	Dickie, G.
Maryculter (hectad)	NO89	1950-1960	
Torry, bank of R Dee east of	NJ9505	1907	Trail, J.
Nigg, grassy bank by road from Wellington Bridge to kirk	NJ9404	1820-1859	Dickie, G.
Newtonhill	NO9092	1964	
Arbuthnott [perhaps in NO77]	NO87	1820-1859	Chrystall, L.

**M121 *Polygonum oxyspermum* C.A.Mey. & Bunge****Ray's Knotgrass****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/3**Earliest to Latest Record (or start and end of intervals)** 2000 to 2023**Habitat** Coastal sands or shingle.

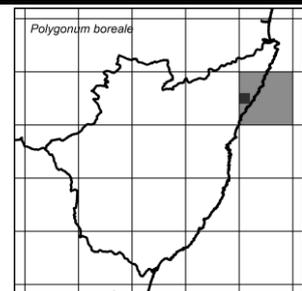
**Commentary** Rather glaucous annual, the stems procumbent, the leaves small with very short or no petioles, the flowers inconspicuous in leaf axils producing a dark, trigonous nut that is distinctly longer than the persistent perianth. Locally rare, a recent colonist presumably only now present at Stonehaven due to the new harbour development at Nigg Bay. Elsewhere coastal, mostly in the south and west where it is quite frequent, otherwise very local, the closest recent records being from Tentsmuir (Fife & Kinross) in the south and from Donmouth (South Aberdeenshire) then Brora (East Sutherland) in the north.



Location	Grid Ref	Year	Recorder / Reporter
Nigg Bay	NJ965046	2005	Green, I.
Stonehaven, shore	NO87618560	2023	Norton, T.

**M122 *Polygonum boreale* (Lange) Small****Northern Knotgrass****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 2022 to 2022**Habitat** Arable field margins or rough ground.

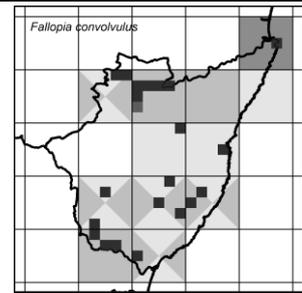
**Commentary** Sprawling annual, the stems procumbent, the leaves elongate-oval, much broader than the stems and with substantial petioles, the flowers inconspicuous in leaf axils producing a dark, trigonous nut that is roughly equal to the persistent perianth. Locally rare, a recent colonist only once recorded. Elsewhere restricted to Scotland, prior to 1980 almost restricted to Orkney and Shetland but now much more widespread especially in coastal areas, recorded recently from 17 tetrads in Angus (including some bordering Kincardineshire) and four tetrads in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Cammachmore, field entrance	NO90229480	2022	Elston, D.

**M123 *Fallopia convolvulus* (L.) Á.Löve****Black-bindweed****Local Origin** Archaeophyte**National Status** -, -, SBL**Local Status** LO; 11+ Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 10/15/13**Earliest to Latest Record (or start and end of intervals)** 1950 to 2023**Habitat** Disturbed ground in the lowlands.

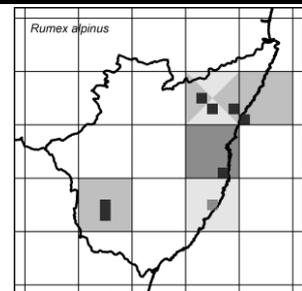
**Commentary** Annual with trailing, often climbing, stems, the leaves pointed, sagittate, the inflorescence lax, the flowers tiny with pinkish-white petals giving rise to conspicuous whorls of winged fruit. Locally widespread, often in arable field margins. Elsewhere widespread and generally frequent in lowland areas, mainly eastern in Scotland, much decreased in areas where arable farming is marginal.



Location	Grid Ref	Year	Recorder / Reporter
<b>SAMPLE</b>			
Fettercairn, Inch of Arnhall, field margin	NO62617158	2021	Elston, D.
Inglismaldie, field margin by Luther Water	NO65846634	2022	Elston, D.
Glenbervie, Mains of Mondyne, arable field margin	NO76477971	2023	Elston, D.
Rickarton, W of, weedy edge of car-park	NO791892	2019	Welch, D.
Dunnottar Woods	NO86458509Ø	2005	MacDonald, T.
Nigg, Girdle Ness (tetrad)	NJ90S	2018	Welch, D.
Durris, arable field	NO77339641Ø	2010	Green, I.
Crathes, arable field edge	NO743962	2020	Welch, D.
Banchory, Woodend	NO71769727Ø	2006	Green, I.
Glassel, arable edge	NO661981	2011	Welch, D.

**M124 *Rumex alpinus* L.****Monk's-rhubarb****Local Origin** Archaeophyte**National Status** NT, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/7/8**Earliest to Latest Record (or start and end of intervals)** 1950 to 2023**Habitat** Road verges near habitation.

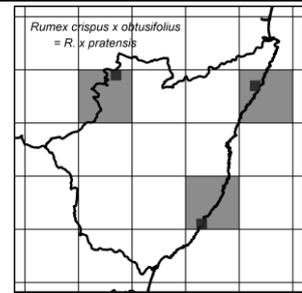
**Commentary** Clump-forming perennial, the leaves large and basal, the stems erect and tall, the inflorescence branched above, comprising of densely-packed, reddish flowers and fruit. Locally scarce, widely scattered in the lowlands. Elsewhere a very local northern species, the two largest clusters in Britain are centred on Perth and on North Aberdeenshire, recorded recently from 25 tetrads in Angus but only from three (Drumoak, Keig and Clova) in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Netherley, roadside	NO830959	2008	Welch, D.
Netherley, roadside	NO853933	2010	Welch, D.
Netherley, Cookney, roadside	NO88979394	2023	Elston, D.
Muchalls, roadside	NO881922	2022	Welch, D.
Mill of Muchalls, streamside	NO901912	2003	Welch, D.
Crawton, roadside	NO878800	2020	Welch, D.
Fettercairn, roadside	NO651738	2022	Welch, D.
Kinneff	NO8574	1963	Pritchard, N.

**M125 *Rumex crispus x obtusifolius* = *R. x pratensis* Mert. & W.D.J.Koch****A Hybrid Dock****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/2/2**Earliest to Latest Record (or start and end of intervals)** 2010 to 2015**Habitat** Rough ground.

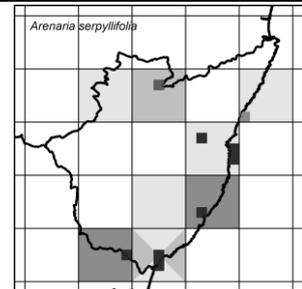
**Commentary** Large, tufted perennial, the leaves large and wavy-edged, the stems erect and tall, the inflorescence branching, identifiable by the fruit typically having rounded perianth segments that are weakly-toothed. Locally rare, perhaps under-recorded. Elsewhere widespread in lowland areas but with variable frequency, in Scotland mostly coastal in line with *Rumex crispus* (Curled Dock), recorded recently in Angus only from Auchmithie but in South Aberdeenshire from eight tetrads.



Location	Grid Ref	Year	Recorder / Reporter
Glassel, roadside at gateway	NO668986	2015	Welch, D.
Findon, waste ground	NO925970	2011	Welch, D.
Gourdon, waste ground	NO822707	2014	Welch, D.

**M126 *Arenaria serpyllifolia* L.****Thyme-leaved Sandwort****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/7/7**Earliest to Latest Record (or start and end of intervals)** 1874 to 2019**Habitat** Open ground, usually on rather basic, soils.

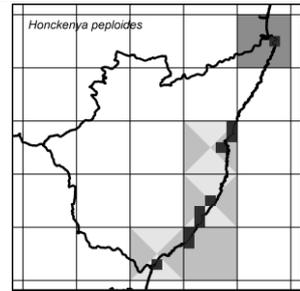
**Commentary** Small annual or biennial, the stems creeping to ascending, the leaves opposite, unstalked, pointed, the flowers comprising five white petals distinctly shorter than the interleaved green sepals. Locally scarce, coastal or nearly so apart from a single record at Crathes. Elsewhere widespread in lowland areas, generally frequent but less so in Scotland where it seems to have declined, recorded recently from 17 tetrads in Angus but only two (Alford and Morvern Lodge) in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Fetteresso Forest, by Hill of Swanley	NO82718730Ø	2016	Green, I.
Dunnottar, Castle Haven, on rocky outcrop	NO88028396	2019	Elston, D.
Inverbervie, Old Red Sandstone outcrop	NO835726	2005	Welch, D.
St Cyrus, pathside at zigzag	NO753647	2011	Welch, D.
Marykirk, by R North Esk	NO68926489	2019	Elston, D.
Crathes, disturbed ground at old railway yard	NO747962	1996	Welch, D.
Muchalls	NO9091	1964	
Auchenblae (hectad)	NO77	1950-1969	
Strachan	NO69	1874	Sim, T.

**M127 *Honckenya peploides* (L.) Ehrh.****Sea Sandwort****Local Origin** Native**National Status** -, -, -**Local Status** LS; 9 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/8/8**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Coastal sands, shingle and rocks within reach of salt spray.

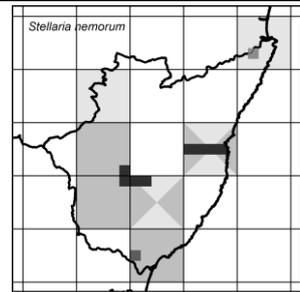
**Commentary** Mat-forming perennial, the stems creeping, the leaves dense, unstalked, in opposite pairs of alternating orientation, the flowers with small white petals, developing into globose yellowish-green fruits. Locally scarce, at sites spread along the entire coastline. Elsewhere widespread and frequent round all coasts, including Angus and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Nigg Bay	NJ9604	2015	Meek, E.
Muchalls, beach to south	NO89408946	2018	Peaker, A.
Garron Point, Craigeven Bay, shore	NO8887	2022	Elston, D.; Blow, C.; Peaker, A.
Stonehaven	NO8785	2023	Harding, M.
Kinneff, coast	NO85607442Ø	2011	Green, I.
Inverbervie	NO8372	2018	Dundee Naturalists Society
Gourdon, shore	NO8371	2017	Elston, D.; Cox, J.
Haughs of Benholm	NO80856792Ø	2011	Green, I.
St Cyrus NNR, dunes	NO74186292	2020	Elston, D.

**M128 *Stellaria nemorum* L.****Wood Stitchwort****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/7/14**Earliest to Latest Record (or start and end of intervals)** 1907 to 2023**Habitat** Old woodland on rich soils.

**Commentary** Short, hairy perennial, the stems erect, the leaves opposite, cordate, with long petioles, the inflorescence long-stalked with few flowers each apparently with ten linear petals. Locally scarce, mostly in the valleys of the River Carron and the upper reaches of the Luther Water. Elsewhere widespread and often frequent in the northern half of England and the south of the Highland Boundary Fault, otherwise very local, recorded recently from 14 tetrads in Angus but from none in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Drumtochty, woodland	NO71597983	2023	Elston, D.
Auchenblae, woodland	NO727781	2009	Welch, D.
Fetteresso, Carron Wood, streamside woodland	NO81618499Ø	2011	Green, I.
Fetteresso, woodland	NO8485	2010	Green, I.
Dunnottar, rich soil on north side of Carron Water	NO86428525	2021	Elston, D.
Den of Morphie	NO708645	1995	Welch, D.
<i>Banchory-Devenick, wood E of East Lodge</i>	<i>NJ9202</i>	<i>1950-1960</i>	<i>Sommerville, A.</i>
<i>Banchory+Strachan</i>	<i>NO69</i>	<i>1958</i>	<i>Duncan, U.</i>

**M129 *Cerastium arvense* L.**

Field Mouse-ear

Local Origin Native

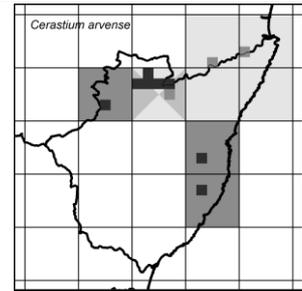
National Status -, -, -

Local Status LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/5/6

Earliest to Latest Record (or start and end of intervals) 1820 to 2023

Habitat Dry grassland, usually with some disturbance.

**Commentary** Grey-hairy, low-growing perennial forming loose mats, the stems ascending, the leaves linear, unstalked, opposite, the flowers with five large, white, deeply-divided petals. Locally scarce, recent records all from between Crathes and Strachan in the Dee catchment but formerly found almost to the coast. Elsewhere widespread but infrequent lowland areas, almost entirely in the east, recently recorded from near Montrose (Angus) and near Blackburn and Bielside (South Aberdeen) suggesting it may be found more widely in Kincardineshire.



Location	Grid Ref	Year	Recorder / Reporter
Hirn, SW of	NO72239928Ø	2008	Green, I.
Milton of Crathes, grassland along fence line	NO73629609	2023	Elston, D.; Cox, J.
Crathes Castle, grassland by track	NO740968	2019	Elston, D.
Crathes, N bank of R Dee, by path	NO76109628	2014	Moss, R.
Strachan, road verge in front of Feughside Inn	NO64279238	2021	Elston, D.
<i>Durris, near mill on Burn of Shevoch</i>	NO7795	1820-1859	Beverley, A.
<i>Banchory-Devenick, banks of Dee next to kirk</i>	NJ9002	1820-1859	MacGillivray, P.
<i>Banchory-Devenick Parish [perhaps in NJ90]</i>	NO99	1880-1919	Trail, J.
<i>Maryculter Parish [perhaps in NJ80]</i>	NO89	1880-1919	Trail, J.
<i>Kingcausie [perhaps in NJ80]</i>	NO89	1847	Syme, J.
<i>Maryculter, at Mill Inn</i>	NJ8500	1876	Trail, J.
<i>Maryculter, at farm of Bankhead</i>	NO89	1820-1859	Fleming, A.

**M130 *Cerastium semidecandrum* L.**

Little Mouse-ear

Local Origin Native

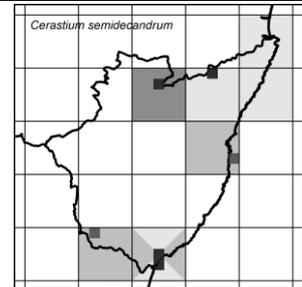
National Status -, -, -

Local Status LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1

Earliest to Latest Record (or start and end of intervals) 1820 to 2021

Habitat Dry, sandy places.

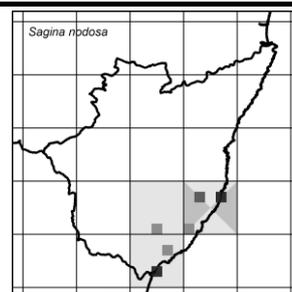
**Commentary** Small, glandular-hairy annual, the stems shortly ascending, the flowers with five, white, deeply-divided petals, both the bracts and sepals having broad scarious margins. Locally rare, formerly more widespread, perhaps under-recorded due to similarity from a distance at least with the commoner *Cerastium diffusum* (Sea Mouse-ear). Elsewhere widespread but infrequent in lowland areas, mostly coastal in Scotland and apparently lost from many inland sites, recorded recently from 15 tetrads in Angus including in Glen Esk, also from three tetrads in South Aberdeenshire including an Aberdeen cemetery, suggesting it might be found more widely in Kincardineshire.



Location	Grid Ref	Year	Recorder / Reporter
Crathes, short turf at sandpit	NO747962	2019	Welch, D.
Maryculter, sandpit at Templars' Park	NO84949998	2020	Elston, D.
St Cyrus NNR, disturbed ground in dune grassland	NO74706392	2021	Elston, D.
Dunnottar Castle, bare place in coastal grassland	NO880838	1996	Welch, D.
Fettercairn, Edzell airbase (tetrad)	NO66J	1987	Pritchard, J.
<i>Maryculter Parish [perhaps in NJ80]</i>	NO89	1880-1919	Trail, J.
<i>Banchory-Devenick Parish [perhaps in NJ90]</i>	NO99	1880-1919	Trail, J.
<i>Nigg Parish</i>	NJ90	1880-1919	Trail, J.

**M131 *Sagina nodosa* (L.) Fenzl****Knotted Pearlwort****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/1/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Open, moist basic grassland.

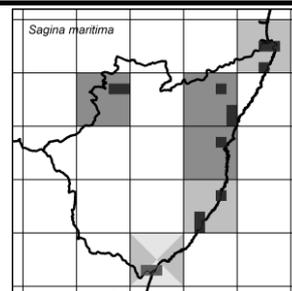
**Commentary** Small, low-growing perennial, the stems thin, decumbent, apparently bearing clusters of leaves in the axils of the linear leaves, the flowers with five white petals much longer than the sepals. Locally rare, now restricted to the coast, the former inland sites are seemingly no longer suitable. Elsewhere widespread but local, apparently lost from many former haunts, recorded recently upstream of Edzell (Angus) and so may appear on rocks at Gannochy Gorge.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus NNR, dune slack	NO74246314	2022	Drummond, H.
Braidon Bay area	NO869774Ø	2011	Green, I.
Roadside of Kinneff, marsh	NO839767	1980	Ferreira, C.
St Cyrus, Den of Jackston	NO76T	1820-1859	Stephen
Garvock, St James' Lochs	NO7471	1949	Graham, R.
Benholm, Annie's Dam	NO8071	1820-1859	Stephen

**M132 *Sagina maritima* Don****Sea Pearlwort****Local Origin** Native**National Status** -, -, -**Local Status** LS; 9 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/5/5**Earliest to Latest Record (or start and end of intervals)** 1951 to 2021**Habitat** Bare ground at the coast, gritty roadsides.

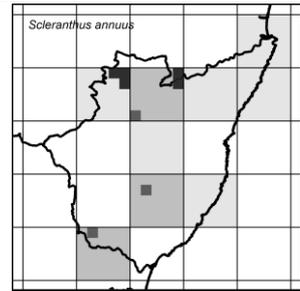
**Commentary** Procumbent annual with an obvious basal rosette, the leaves linear, narrow and rather dark green, the flowers small, without obvious petals and held low to the ground. Locally scarce, once entirely coastal but beginning to be found inland and will soon be recorded at sufficient sites not to merit inclusion in this Register. Elsewhere widespread and frequent at the coast, with a particular concentration of inland records from Speyside.



Location	Grid Ref	Year	Recorder / Reporter
Banchory, W of, verges of A93	NO6796	2006	Green, I.
Maryculter, disused quarry below Stranog Hill	NO86599650	2020	Elston, D.
Torry, by Inner Breakwater, on circular concrete platform	NJ95970558	2020	Elston, D.
Cove Bay, harbour	NJ95550065	2020	Elston, D.; Cox, J.
Muchalls, central reservation A90	NO899924	2020	Peaker, A.
Stonehaven, coast north towards Cowie	NO875863	2019	Elston, D.
Braidon Bay, Tod Head, wet flush near sea	NO870770	2014	Welch, D.
Inverbervie, Kinghornie	NO83887255Ø	2011	Green, I.
Gourdon, saltmarsh to S of	NO82327047	2021	Elston, D.
Nigg, Girdle Ness, bare earth near	NJ9705	1997	Welch, D.
St Cyrus, mud pool at shore	NO741628	1995	Welch, D.

**M133 *Scleranthus annuus* L.****Annual Knawel****Local Origin** Native**National Status** EN, -, SBL**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/3/3**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Dry, disturbed ground.

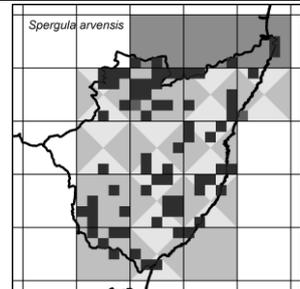
**Commentary** Small annual, the leaves narrow, pointed, linear, the flowers individually tiny, in clusters in the leaf axils. Locally rare, believed confined to tiny populations near Banchory/Raemoir until discovery of a large population near Park Bridge, formerly much more widespread. Elsewhere widespread but local, mostly eastern in Scotland and greatly declined, recently recorded from five widely separated tetrads in both South Aberdeenshire and Angus including near Edzell, suggesting it could be found more widely in Kincardineshire.



Location	Grid Ref	Year	Recorder / Reporter
<b>Raemoir, gateway track</b>	<b>NO671997</b>	<b>2022</b>	<b>Welch, D.</b>
<b>Banchory, Lochton of Leys, entrance to new shed</b>	<b>NO69639779</b>	<b>2020</b>	<b>Welch, M.</b>
<b>Durris, dry ledge of sand-pit by Park Bridge</b>	<b>NO79839800</b>	<b>2021</b>	<b>Peaker, A.; Blow, C.</b>
Strachan, turnip field at Midtown	NO705912	1998	Welch, D.
Auchenblae, floor of small quarry	NO725776	1998	Welch, D.
Fettercairn, Edzell airbase (tetrad)	NO66J	1987	Pritchard, J.
<i>Maryculter (hectad)</i>	<i>NO89</i>	<i>1950-1960</i>	
<i>Maryculter Parish [perhaps in NJ80]</i>	<i>NO89</i>	<i>1880-1919</i>	<i>Trail, J.</i>
<i>Banchory-Devenick Parish [perhaps in NJ90]</i>	<i>NO99</i>	<i>1880-1919</i>	<i>Trail, J.</i>
<i>Nigg Parish</i>	<i>NJ90</i>	<i>1880-1919</i>	<i>Trail, J.</i>
<i>Glenbervie (hectad)</i>	<i>NO78</i>	<i>1950</i>	<i>Gardiner, J.</i>
<i>Inverbervie (hectad)</i>	<i>NO87</i>	<i>1950-1960</i>	
<i>Arbuthnott [perhaps in NO77]</i>	<i>NO87</i>	<i>1820-1859</i>	

**M134 *Spergula arvensis* L.****Corn Spurrey****Local Origin** Archaeophyte**National Status** VU, -, -**Local Status** LO; 11+ Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 16/36/29**Earliest to Latest Record (or start and end of intervals)** 1950 to 2023**Habitat** Disturbed, usually rather dry, soils.

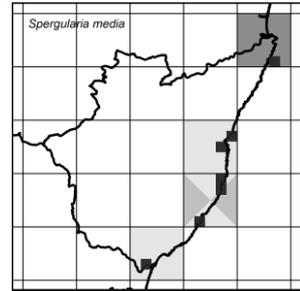
**Commentary** Straggling annual, the stems rather wiry, the leaves linear, in whorls, the flowers with five white petals in a diffuse inflorescence. Locally widespread as an arable weed, seemingly faring well. Elsewhere widespread and generally frequent in lowland areas but showing a marked decline in some areas.



Location	Grid Ref	Year	Recorder / Reporter
<b>SAMPLE</b>			
<b>Strachan, bale storage ground</b>	<b>NO644915</b>	<b>2004</b>	<b>Meek, E.</b>
<b>Hirn, Red Moss</b>	<b>NJ7401</b>	<b>2015</b>	<b>Meek, E.</b>
<b>Durris, Woodlands, S of</b>	<b>NO80589375Ø</b>	<b>2014</b>	<b>Green, I.</b>
<b>Marywell, Turnamiddle, newly made road verge</b>	<b>NO924995Ø</b>	<b>2017</b>	<b>Waddell, J.</b>
<b>Altens, by coast</b>	<b>NJ96450311Ø</b>	<b>2019</b>	<b>Loizou, T.</b>
<b>Glenbervie, Chapelton, field margin</b>	<b>NO73408277</b>	<b>2021</b>	<b>Blow, C.; Peaker, A.</b>
<b>Arbuthnott, Mill of Garvock, arable field margin</b>	<b>NO76907454</b>	<b>2023</b>	<b>Elston, D.</b>
<b>Kinneff, arable edge at Fernieflatt</b>	<b>NO863773</b>	<b>2022</b>	<b>Welch, D.</b>
<b>St Cyrus NNR</b>	<b>NO7463</b>	<b>2015</b>	<b>Meek, E.</b>
<b>Morphie, arable field by R North Esk</b>	<b>NO72166212Ø</b>	<b>2012</b>	<b>Green, I.</b>

**M135 *Spergularia media* (L.) C.Presl****Greater Sea-spurrey****Local Origin** Native**National Status** -, -, -**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/4/4**Earliest to Latest Record (or start and end of intervals)** 1950 to 2023**Habitat** In open ground at the coast, usually within reach of sea spray.

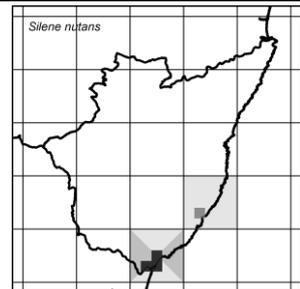
**Commentary** Low-growing perennial, the stems procumbent, the leaves linear, the flowers with pinkish-white petals longer than the sepals and usually ten stamens or stamenoids. Locally scarce, not recorded prior to 1950, difficult to identify when not in flower so possibly under-recorded. Elsewhere now widespread and frequent at most coasts, the national and local increases in range apparently coinciding.



Location	Grid Ref	Year	Recorder / Reporter
Altens, sea-washed rocky platform	NJ96060173	2018	Elston, D.
Garron Point, rocks washed by sea	NO89258758	2023	Elston, D.
Dunnottar, Castle Haven, shore	NO87998429	2020	Elston, D.
Catterline, shore	NO87057781Ø	2011(2020)	Green, I.
Gourdon, shore	NO83337146	2020	Elston, D.; Cox, J.
St Cyrus, by mouth of R North Esk	NO73776246Ø	2010	Haynes, T.; Haynes, R.

**M136 *Silene nutans* L.****Nottingham Catchfly****Local Origin** Native**National Status** NT, NS, SBL**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/3/3**Earliest to Latest Record (or start and end of intervals)** 1789 to 2022**Habitat** On dry, base-rich sands or thin soils.

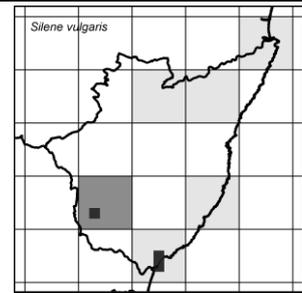
**Commentary** Erect medium-sized perennial, the leaves opposite, the inflorescence open, the flowers with a long calyx tube, with narrow, hairy, whitish petals often partially rolled up and with stigmas markedly excurrent. Locally rare, found in some abundance at St Cyrus, the northern limit in the British Isles. Elsewhere extremely local, beyond the associated site at Boddin Point (Angus) the most northerly sites are all south of Leeds.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, disused railway line	NO74476406	2009	McIntosh, J.; Turner, A.
St Cyrus, rear-dune grassland	NO745634	2016(2022)	Young, M.
Inverbervie	NO8372	1904	Nicoll, J.
Kinneff	NO87	1835-1845	New Statistical Account

**M137 *Silene vulgaris* (Moench) Garcke****Bladder Campion****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2021**Habitat** Rough, often rather dry, grassy places.

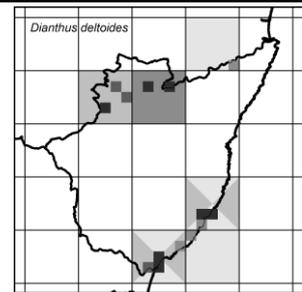
**Commentary** Medium-sized perennial, the stems erect, the leaves glaucous, the inflorescence open, the flowers with calyx strongly inflated and white petals often partially rolled up. Locally rare, once much more widely distributed. Elsewhere widespread and generally frequent except in Scotland where it is found mostly in the east and much reduced in range, recently recorded from 14 tetrads in Angus but from only two near Aberdeen in South Aberdeenshire where it is most likely an introduction.



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, roadside at Thornyhill	NO629723	2001	Welch, D.
St Cyrus NNR, grassland on cliffs	NO75206459	2021	Elston, D.; Peaker, A.
<i>Banchory [perhaps in NO69]</i>	NO79	1820-1859	Brichan, J.
<i>Nigg Parish</i>	NJ90	1880-1919	Trail, J.
<i>Maryculter (hectad)</i>	NO89	1950-1960	
<i>Inverbervie (hectad)</i>	NO87	1950-1960	

**M138 *Dianthus deltooides* L.****Maiden Pink****Local Origin** Native**National Status** NT, NS, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/5/6**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Dry, neutral or basic, grasslands.

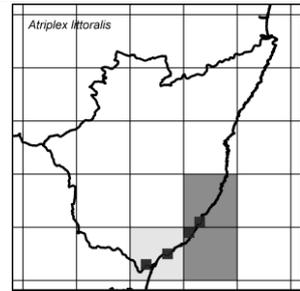
**Commentary** Loosely tufted perennial, the stems erect, the leaves in opposite pairs, the flowers having toothed, shocking-pink petals that only open in sunlight. Locally scarce, the population at St Cyrus is very large, otherwise populations are small and many former sites have been lost. Elsewhere widespread but local, in the northern half of Scotland mostly in sandy/basic grasslands at the coast or on river shingles though not along the River North Esk.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus NNR, dune grassland	NO7463	2019	Routledge, G.
Kinneff, Castle Hill, above cliffs	NO84887387Ø	2011	Green, I.
Durris, grassland by R Dee	NO77159670	2023	Cook, P.
Banchory, North bank R Dee	NO72189647	2009	Welch, D.
Strachan, gravelly entrance to parking area	NO64359236	2021	Welch, D.
Banchory, S bank of R Dee	NO698952	1977	Marren, P.
Inchmarlo, by R Dee	NO671963	1977	Welch, D.
<i>St Cyrus, Braes of Commieston</i>	NO76G	1848	Farquharson, J.
<i>Johnshaven, Brotherton, links to the east</i>	NO76Y	1820-1859	Stephen
<i>Burn of Benholm, at bridge</i>	NO8069	1835-1845	New Statistical Account
<i>Gourdon, road-side above</i>	NO8271	1820-1859	Stephen
<i>Inverbervie</i>	NO8372	1911	Thomson, A.
<i>Banchory-Devenick Parish, on R Dee shingle above Ardoe</i>	NJ8901	1880-1919	Trail, J.

**M139 *Atriplex littoralis* L.****Grass-leaved Orache****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/3**Earliest to Latest Record (or start and end of intervals)** 1948 to 2020**Habitat** Rough, often sandy, ground near the coast.

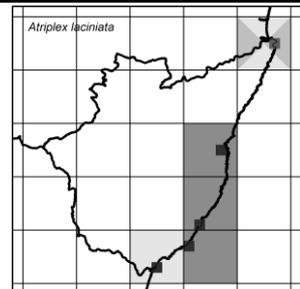
**Commentary** Medium-sized annual with erect stems, the leaves long and narrow, the inflorescence comprising narrowly cylindrical heads densely packed with tiny flowers. Locally scarce, only recorded from the southern end of our coastline. Elsewhere widespread and frequent in the south east, in Scotland mostly coastal and eastern, infrequent but starting to colonise some roadsides, recorded recently from Angus in part as a continuation of the Kincardineshire population but from South Aberdeenshire only at Donmouth.



Location	Grid Ref	Year	Recorder / Reporter
Haughs of Benholm	NO81806951Ø	2011	Green, I.
Gourdon, shore	NO83077087	2020	Elston, D.; Cox, J.
St Cyrus, waste ground at Tangleha'	NO770649	2020	Welch, D.
St Cyrus, saltmarsh at mouth of R North Esk	NO73786249Ø	2010	Haynes, T.; Haynes, R.

**M140 *Atriplex laciniata* L.****Frosted Orache****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/4/3**Earliest to Latest Record (or start and end of intervals)** 1835 to 2017**Habitat** Unconsolidated coastal sands.

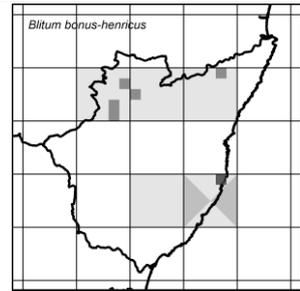
**Commentary** Short annual, the stems procumbent, reddish, the leaves broad, leathery, mealy, the inflorescence comprised of tiny flowers in dense cylindrical heads. Locally scarce, perhaps no longer occurring north of Stonehaven. Elsewhere widespread and frequent at the coast other than north west Scotland, so may recolonise lost ground.



Location	Grid Ref	Year	Recorder / Reporter
Stonehaven, shore	NO876856	2011	Welch, D.
Gourdon (tetrad)	NO87F	2017	Elston, D.
Johnshaven, shore	NO802673	2013	Welch, D.
St Cyrus NNR	NO7463	2005	Green, I.; Roberts, G.
Nigg Bay	NJ965048	1998	Welch, D.
Cove Bay	NJ90	1842	

**M141 *Blitum bonus-henricus* (L.) Rchb.****Good-King-Henry****Local Origin** Archaeophyte**National Status** VU, -, SBL**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1993**Habitat** Disturbed ground, often near habitation.

**Commentary** Medium-sized clumped, sprawling perennial, the stems ascending, the leaves sagittate, edible, the inflorescence much-branched, comprising narrowly conical clusters of individually tiny flowers. Locally with no recent records, most recently recorded at Catterline, once more widespread. Elsewhere widespread but infrequent, in Scotland now almost confined to the east having been lost from many former sites, the closest recent records are from near Forfar and Kinnordy (Angus) and from near Westhill and Tarland (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Catterline, waste ground by coast	NO870782	1993	Welch, D.
Garvock	NO77	1820-1859	Stephen
Arbuthnott [perhaps in NO77]	NO87	1820-1859	Chrystall, L.
Crawton, near	NO8799	1876	Trail, J.
Banchory, by Broombank in Arbeadie	NO701957	1851	Ewan, W.
Banchory [perhaps in NO79]	NO6997	1820-1859	Brichan, J.
Strachan	NO6791	1820-1859	Stephen

**M142 *Suaeda maritima* (L.) Dumort.****Annual Sea-blite****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2020**Habitat** Muddy grassland on the sea shore.

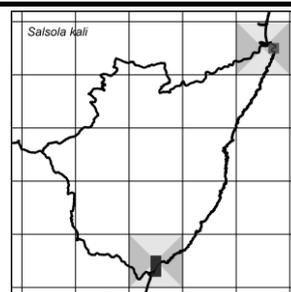
**Commentary** Small annual, the stems ascending, the leaves linear, grey and distinctly fleshy, the flowers individually tiny, in small clusters in the axils of leaf-like bracteoles. Locally rare, seemingly now restricted to a small population immediately north and south of Gourdon. Elsewhere widespread and frequent in areas of soft coast, recorded recently from Montrose Basin (Angus) and the Ythan Estuary (North and South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Gourdon, saltmarsh above shore	NO82337034	2020	Elston, D.; Cox, J.
St Cyrus (hectad)	NO76	1950-1960	

**M143 *Salsola kali* L.****Prickly Saltwort****Local Origin** Native**National Status** VU, -, SBL**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/2/3**Earliest to Latest Record (or start and end of intervals)** 1820 to 2017**Habitat** Coastal sands often low down on the foreshore.

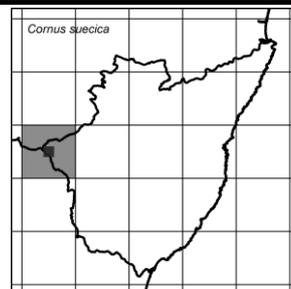
**Commentary** Small annual, the stems spreading to ascending, the leaves linear, rather succulent but spike-tipped and painful to the touch, the flowers tiny and arising in the axils of leaf-like bracteoles. Locally rare, having a large population at St Cyrus, and with this being such a mobile species it is perhaps surprising that it has not been recorded more often as adventive plants at other sites. Elsewhere widespread and frequent around the coast except in north-west Scotland, recorded recently in Angus at Lunan Bay and Barry links, also in South Aberdeenshire from Aberdeen to the River Ythan.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, sand just above strand line	NO752643	2017	Elston, D.; Cox, J.
Nigg Bay, sandy beach	NJ965047	1998	Genney, D.

**M144 *Cornus suecica* L.****Dwarf Cornel****Local Origin** Native**National Status** NT, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/2**Earliest to Latest Record (or start and end of intervals)** 2018 to 2020**Habitat** Sheltered hollows in upland heath.

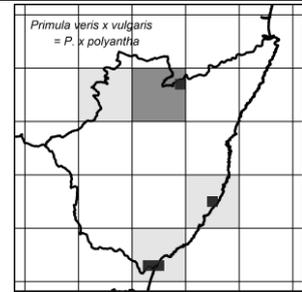
**Commentary** Patch-forming rhizomatous herb, the stems short, erect, the leaves with almost-parallel veins and, if present, the flowers with tiny, blackish petals surrounded by white, petal-like bracts. Locally rare, well-established but not yet seen flowering on Mount Battock where it is newly discovered but has clearly been growing for some time. Elsewhere a mountain plant, widespread and frequent in the Scottish Highlands including the hills of Angus and South Aberdeenshire, the closest recent record being from Gannoch (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Mount Battock, hollows in heath SE of summit	NO55188440	2020	Peaker, A.

**M145 *Primula veris x vulgaris* = *P. x polyantha* Mill.****False Oxlip****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/3**Earliest to Latest Record (or start and end of intervals)** 1820 to 2021**Habitat** Short, unimproved grasslands.

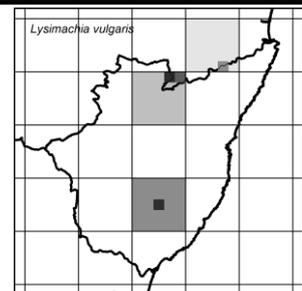
**Commentary** Low-growing perennial, the leaves basal, rugose with many coarse-veins, the stems short, branched at the top in the manner of the *Primula veris* (Cowslip) parent but with the pale yellow, open flowers of the *Primula vulgaris* (Primrose) parent. Locally scarce, a distinctive hybrid that could appear anywhere that the less common parent, Cowslip, grows. Elsewhere widespread, most frequent in the south, infrequent in Scotland in accordance with the distribution of Cowslip.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, along former railway line	NO73976363	2005	Hogarth, B.
St Cyrus NNR	NO7463	2005	Green, I.; Roberts, G.
Kinneff, cliff-top grassland	NO85267436	2021	Elston, D.
Durris, by R Dee	NO78489751Ø	2012	Green, I.
<i>Inverbervie (hectad)</i>	NO87	1820-1859	
<i>Strachan to Inchmarlo (hectad)</i>	NO69	1820-1859	

**M146 *Lysimachia vulgaris* L.****Yellow Loosestrife****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2010**Habitat** Damp grassland.

**Commentary** Patch-forming perennial, the stems erect, hairy, the leaves opposite or forming whorls with no or very short petioles, the inflorescence a tall spike of closely-spaced flowers apparently with five yellow petals without marginal hairs, the calyx teeth with orange margins. Locally rare, certainly planted at Torry but more likely native on Deeside. Elsewhere widespread and generally frequent in lowland areas, becoming less frequent further north with very few recent records beyond the Highland Boundary Fault.



Location	Grid Ref	Year	Recorder / Reporter
Loch of Park	NO76669862	2010	Green, I.
Durris, by R Dee below Park Bridge	NO798984	1994	Welch, D.
<i>Maryculter, Powberry Island in R Dee</i>	NJ8600	1820-1859	Gammie
<b>INTRODUCED / PLANTED</b>			
Nigg, St Fittick's Community Park, planted	NJ96190472Ø	2019	Loizou, T.

**M147 *Lysimachia maritima* (L.) Galasso, Banfi & Soldano**

Sea-milkwort

Local Origin Native

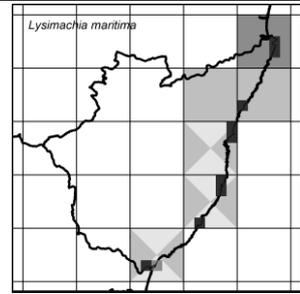
National Status -, -, -

Local Status LS; 8 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/7/7

Earliest to Latest Record (or start and end of intervals) 1820 to 2022

Habitat Damp, grassy, muddy or rocky places within reach of sea spray.

**Commentary** Low-growing, mat-forming perennial herb, the stems prostrate, the leaves small and tightly-packed, the numerous flowers in the leaf axils having pale pinkish petals. Locally scarce, thinly scattered along the length of our coastline. Elsewhere widespread and frequent on all coasts.



Location	Grid Ref	Year	Recorder / Reporter
Nigg, Girdle Ness, rocky promontary	NJ97230546	2020	Elston, D.
Altens, by coast	NJ96300221Ø	2019	Loizou, T.
Newtonhill, cliff top to south of Newtonhill Bay	NO91449322	2020	Peaker, A.
Muchalls, shore	NO898908	2015	Welch, D.
Garron Point, shore	NO8887	2022	Elston, D.; Blow, C.; Peaker, A.
Catterline, by shore	NO87117829Ø	2010	Green, I.
Gourdon, saltmarsh to N (and S) of	NO83157093	2021	Elston, D.
St Cyrus, mouth of R North Esk	NO73776246Ø	2010	Haynes, T.; Haynes, R.

**M148 *Lysimachia arvensis* (L.) U.Manns & Anderb.**

Scarlet Pimpernel

Local Origin Native

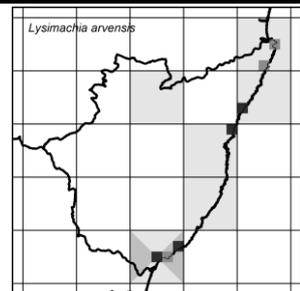
National Status -, -, SBL

Local Status LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/4/4

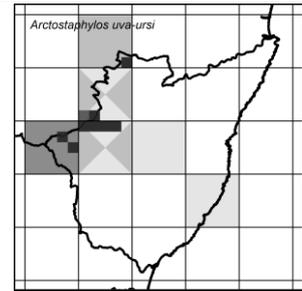
Earliest to Latest Record (or start and end of intervals) 1820 to 2021

Habitat Bare ground on sand or in arable fields.

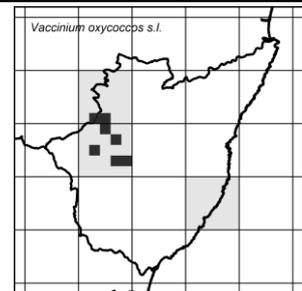
**Commentary** Low-growing annual, the stems prostrate or ascending, the leaves small, unstalked, in opposite pairs leaves, the flowers with reddish petals only opening in sunshine. Locally scarce, only once recorded inland, otherwise coastal and less widespread than previously. Elsewhere generally widespread and frequent in lowland areas but in Scotland mostly coastal and lost from many former sites, recorded recently in Angus only at Kinnaber and Boddin, also from four tetrads in South Aberdeenshire including one record from urban Aberdeen.



Location	Grid Ref	Year	Recorder / Reporter
Newtonhill, field margin	NO908926	2019	Peaker, A.
Stonehaven, field margin near Westport	NO892891	2019	Peaker, A.
Johnshaven	NO7967	2005	
St Cyrus NNR, dunes and cliff screes	NO75276447	2021	Elston, D.
<i>Banchory [perhaps in NO69]</i>	<i>NO79</i>	<i>1820-1859</i>	<i>Brichan, J.</i>
<i>Nigg, Girdle Ness, field SW of lighthouse</i>	<i>NJ9704</i>	<i>1820-1859</i>	<i>Fleming, A.</i>
<i>Nigg Parish, fields near Cove Bay</i>	<i>NJ9501</i>	<i>1820-1859</i>	<i>Knight</i>
<i>Arbuthnott [perhaps in NO77]</i>	<i>NO87</i>	<i>1820-1859</i>	<i>Chrystall, L.</i>
<i>St Cyrus, at Milton of Mathers</i>	<i>NO7765</i>	<i>1820-1859</i>	<i>Stephen</i>

**M149 *Arctostaphylos uva-ursi* (L.) Spreng.****Bearberry****Local Origin** Native**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Tracksides and exposed ground in heather moorland and upland forests.**Commentary** Dwarf shrub forming sprawling mats, the leaves dark green, glossy above and net-veined below. Locally scarce, lost from more lowland sites, all known populations are small. Elsewhere widespread and frequent north of the Highland Boundary Fault, with many recent records from Angus and South Deeside.

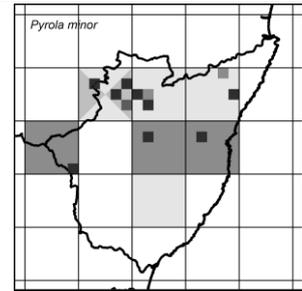
Location	Grid Ref	Year	Recorder / Reporter
Hill of Fare, by track on Craigrath	NJ69340134	2020	Elston, D.
Strachan, track side in moorland	NO61128965	2020	Elston, D.
Strachan, track side in forestry	NO66858943	2020	Elston, D.
Strachan, above mire near Cuttie's Wood	NO63329023	2020	Elston, D.
Glen Dye, layby side by pinewood	NO649897	2012	Welch, D.
Glen Dye, Burn of Badymick, rocks by river	NO58008427	2022	Elston, D.
Mount Battock, dry heath by Wolf Burn	NO57008703	2021	Elston, D.
<hr/>			
<i>Glenbervie (hectad)</i>	NO78	1968	
<i>Arbuthnott Parish [perhaps in NO77]</i>	NO87	1820-1859	Chrystall, L.
<i>Banchory [perhaps in NO79]</i>	NO69	1820-1859	Brichan, J.

**M150 *Vaccinium oxycoccos* s.l. L.****Cranberry / Small Cranberry****Local Origin** Native**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** On sphagnum carpets in heathland.**Commentary** Trailing dwarf shrub, the stems thin, the leaves sparse, slightly inrolled, the flowers held on long pedicels have reflexed pink petals. Locally scarce, moorland south of Strachan, the largest population grows on the mire at Cuttie's Wood. Elsewhere widespread and frequent in much of the north and west. There is some taxonomic uncertainty to resolve over our plants, which are probably all *V. microcarpum*, caused in part by the apparent absence of flowers from some populations, also by the traditional distinguishing feature of stems with / without hairs indicating *V. oxycoccos* s.s. / *microcarpum* not holding up well in North East Scotland. *V. oxycoccos* s.s. has been recorded recently from Menmuir (Angus) and near Dinnet (South Aberdeenshire) whereas *V. microcarpum* has been recorded recently from upper Glen Esk (Angus), also from near Finzean and Aboyne (South Aberdeenshire).

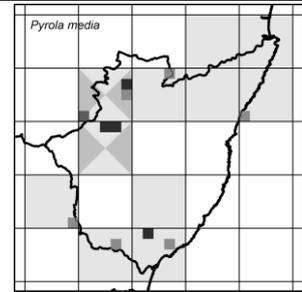
Location	Grid Ref	Year	Recorder / Reporter
<b><i>V. microcarpum</i> (-, -, -)</b>			
Drumtochty, over sphagnum on Goyle Hill	NO68038234	2022	Elston, D.
Glen Dye, flush on low ground below Hill of Duclash	NO63728582	2022	Elston, D.; Peaker, A.
Strachan, bog by Black Loch	NO65319040	2013	Welch, D.
Strachan, bog near Greendams	NO64138975Ø	2012	Green, I.
Strachan, mire near Cuttie's Wood	NO63309021	2020	Elston, D.
<b><i>V. oxycoccos</i> (-, -, -)</b>			
Glen Dye, E of Heatheryhaugh	NO66008768	2020	Elston, D.
Strachan, sphagnum-covered margin of Black Loch	NO65299040	2020	Elston, D.
<b><i>Vaccinium oxycoccos</i> s.l. (-, -, -)</b>			
<i>Arbuthnott Parish [perhaps in NO77]</i>	NO87	1820-1859	Chrystall, L.

**M151 *Pyrola minor* L.****Common Wintergreen****Local Origin** Native**National Status** -, -, -**Local Status** LS; 9 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/5/6**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Heathy ground with or without woodland cover.

**Commentary** Perennial forming loose patches, the leaves basal, rounded, glossy and evergreen, the stems short, erect, bearing flowers with short styles and white petals curved into a half-sphere. Locally scarce, much reduced, recently recorded only from a crescent from Glen Dye via Banchory to Swanley. Elsewhere widespread but mostly local, most frequent in the north, apparently becoming lost from sites outwith its core range, recorded recently from 14 and 42 tetrads in Angus and South Aberdeenshire respectively.



Location	Grid Ref	Year	Recorder / Reporter
Glen Dye, heath by Hazly Grain	NO59228136	2021	Elston, D.
Woodend, pinewood	NO630968	2014	Welch, D.
Blackhall Forest, under trees by track	NO67319579Ø	2006	Green, I.
Tilquhillie, roadside, S verge	NO71229475	2017	Welch, D.
Tilquhillie, willow carr	NO728934	2009	Welch, D.
Banchory, Burnett Park, woodland by tennis court	NO68459638	2023	Begbie, R.
Fetteresso Forest, trackside by Monluth Hill	NO72958687	2021	Elston, D.
Fetteresso, Swanley, grassland once conifer plantation	NO837872	2014	Leaper, G.
Cammachmore, Elsick House, base of boundary wall	NO88989529	2022	Elston, D.
Strachan, at Blackness	NO6993	1988	Birse, E.L.
Maryculter Parish [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Kingcausie, Corbie Den	NO8698	1820-1859	Dickie, G.
Maryculter (hectad)	NO89	1950-1960	
Auchenblae Parish, woods	NO77	1820-1859	Murray, A.
Bervie, under Scotch firs	NO87	1903	Somerville, A.

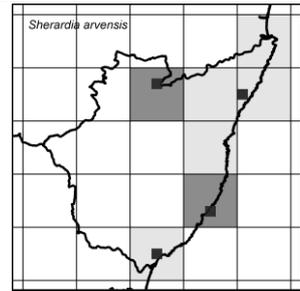
**M152 *Pyrola media* Sw.****Intermediate Wintergreen****Local Origin** Native**National Status** VU, -, SBL**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/3**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Heathy ground with or without woodland cover.

**Commentary** Perennial forming loose patches, the leaves basal, rounded, glossy and evergreen, the stems short, erect, bearing flowers with long styles protruding from the half-sphere formed by curving white petals. Locally scarce, apparently once much more widespread but the combination of infrequent flowering and difficulty in separating from *P. minor* in the absence of flowers may be a cause of under-recording. Elsewhere widespread and frequent in the Cairngorms and East Grampians, otherwise very local and declining, recorded recently from a cluster of sites in upper Glen Esk (Angus) and mid to upper Deeside (South Aberdeenshire).

Location	Grid Ref	Year	Recorder / Reporter
<b>Strachan, by path in Greendams wood</b>	<b>NO648894</b>	<b>2000</b>	<b>Welch, D.</b>
<b>Strachan, by track near R Dye</b>	<b>NO66498947</b>	<b>2022</b>	<b>Begbie, R.</b>
<b>Banchory, pinewood</b>	<b>NO694960</b>	<b>2005</b>	<b>Welch, D.</b>
<b>Garvock Hills, species-rich grassland</b>	<b>NO72806870</b>	<b>2016(2021)</b>	<b>Smedley, Mike</b>
Strachan, Water of Aven	NO6190	1988	Birse, E.L.; Birse, E.M.
<i>Loch of Park, beside</i>	<i>NO7698</i>	<i>1820-1859</i>	<i>Dickie, G.</i>
<i>Kingcausie, steep roadside bank at E end of demense</i>	<i>NJ80</i>	<i>1820-1859</i>	<i>Dickie, G.</i>
<i>Maryculter Parish [perhaps in NJ80]</i>	<i>NO89</i>	<i>1880-1919</i>	<i>Trail, J.</i>
<i>Banchory-Devenick Parish [perhaps in NJ90]</i>	<i>NO99</i>	<i>1880-1919</i>	<i>Trail, J.</i>
<i>Nigg Parish</i>	<i>NJ90</i>	<i>1880-1919</i>	<i>Trail, J.</i>
<i>Muchalls</i>	<i>NO9091</i>	<i>1876</i>	<i>Trail, J.</i>
<i>Auchenblae Parish, woods</i>	<i>NO77</i>	<i>1820-1859</i>	<i>Murray, A.</i>
<i>Fettercairn, wood at The Burn</i>	<i>NO5971</i>	<i>1842</i>	<i>Gardiner, W.</i>
<i>Balmakewan, fir woods S of Free Church</i>	<i>NO6767</i>	<i>1820-1859</i>	<i>Simpson</i>
<i>St Cyrus, at Bridgeton</i>	<i>NO7766</i>	<i>1820-1859</i>	<i>Stephen</i>

**M153 *Sherardia arvensis* L.****Field Madder****Local Origin** Native**National Status** -, -, SBL**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/3**Earliest to Latest Record (or start and end of intervals)** 1880 to 2021**Habitat** Dry, loose ground including arable field margins and screes.

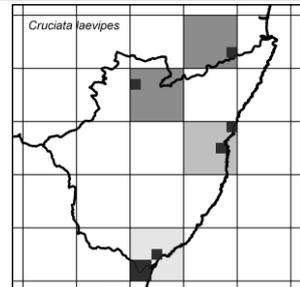
**Commentary** Short annual, the stems ascending, the leaves unstalked and in whorls, the flowers four-lobed, pale pink. Locally scarce, formerly more widespread than at present. Elsewhere widespread and frequent in the south, becoming less frequent and coastal in the north, apparently much declined in Scotland, recorded recently from near Carnoustie, Dundee and Forfar (Angus) and from near Dyce, Kintore and Towie (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, grassland along former railway	NO74486408	2005	Smedley, M.
St Cyrus NNR, dry ground at base of cliffs	NO75626481	2021	Elston, D.
Inverbervie, Craig David, scree below rock face	NO84137313	2021	Elston, D.
Newtonhill, N of, fallow ground	NO91189415	2019	Peaker, A.
Crathes, turnip field	NO750960	2005	Welch, D.
<hr/>			
Stonehaven (hectad)	NO88	1950-1960	
Maryculter (hectad)	NO89	1950-1960	
Maryculter Parish [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Banchory-Devenick Parish [perhaps in NJ90]	NO99	1880-1919	Trail, J.
Nigg Parish	NJ90	1880-1919	Trail, J.

**M154 *Cruciata laevipes* Opiz****Crosswort****Local Origin** Native**National Status** -, -, -**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/7/7**Earliest to Latest Record (or start and end of intervals)** 1950 to 2020**Habitat** Dry grassland or woodland edges on richer soils.

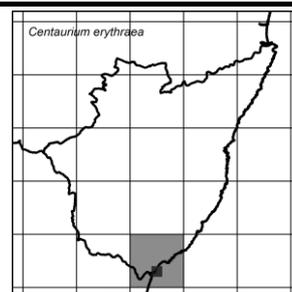
**Commentary** Patch-forming perennial, the stems ascending, the leaves yellowish-green, hairy, in whorls of four, the flowers tiny, yellow in the axils of similarly whorled bracts. Locally scarce in the lowlands, only recorded twice before 2000. Elsewhere widespread and frequent south of the Highland Boundary Fault, very restricted and declining further north, recently recorded from 21 tetrads in Angus but only one each in South Aberdeenshire (Aberdeen) and North Aberdeenshire (Maud).



Location	Grid Ref	Year	Recorder / Reporter
Morphie, by R North Esk	NO718619	2016	Daly, R.
St Cyrus, coast	NO75676480	2015	Smedley, M.
Stonehaven, Dunnottar Woods	NO86318443	2020	Elston, D.
Muchalls, S of	NO8989	2015	Meek, E.
Ardoe, by R Dee,	NJ898025	2004	Waddell, J.
Banchory, old railway	NO716962	2003	Welch, D.

**M155 *Centaureum erythraea* Rafn****Common Centaury****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2009 to 2009**Habitat** Short grassland.

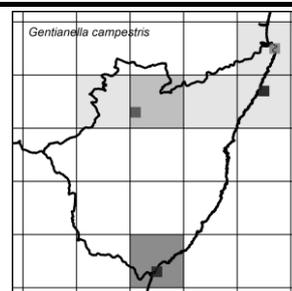
**Commentary** Short glabrous biennial, with a basal rosette, erect stem bearing leaves in opposite pairs, the inflorescence branched, individual flowers each comprising erectly held, narrowly cylindrical, corolla tube more than one third longer than the calyx tube and capped by five pink corolla lobes held horizontally. Locally rare, recorded once as a by-product of Site Condition Monitoring for *Silene nutans* at St Cyrus NNR. Elsewhere widespread and frequent in lowland areas except north east Scotland where it is only frequent on the Moray coast, the closest recent records being from Tentsmuir (Fife), Balmedie and west of Monymusk (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, disused railway line	NO74366393	2009	McIntosh, J.;Turner, A.

**M156 *Gentianella campestris* (L.) Börner****Field Gentian****Local Origin** Native**National Status** VU, -, SBL**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1880 to 2023**Habitat** Neutral-acid grassland.

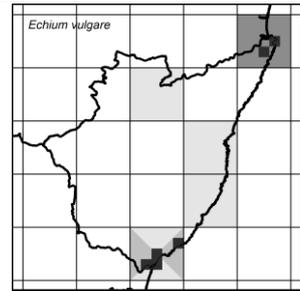
**Commentary** Short annual or biennial, the stems erect, the leaves unstalked in opposite pairs, the flowers purple, four-lobed with a long corolla tube. Locally rare, once widespread, discovered at St Cyrus NNR in 2021, otherwise only recently recorded from Findon where under-grazing has led to the sward becoming too closed and so apparently lost from there. Elsewhere widespread and mostly frequent north of the Highland Boundary Fault, further south infrequent and much declined, recorded recently from many locations in upper Glen Esk (Angus) and mid to upper Deeside (South Aberdeenshire) including at Moss of Powlair, close to the boundary with Kincardineshire.



Location	Grid Ref	Year	Recorder / Reporter
Findon, grassland by fence near coast	NO94219799	2009	Green, I.
St Cyrus, dune slack behind Visitor Centre	NO74186322	2023	Alampo, T.; Redman, P.
Tilquhillie, Craig of Affrusk	NO7192	1973	
Strachan to Inchmarlo (hectad)	NO69	1957	Sommerville, A.
Maryculter Parish [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Banchory-Devenick Parish [perhaps in NJ90]	NO99	1880-1919	Trail, J.
Nigg Parish, between S Pier and Girdle Ness	NJ9605	1880-1919	Trail, J.

**M157 *Echium vulgare* L.****Viper's-bugloss****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/4/4**Earliest to Latest Record (or start and end of intervals)** 1820 to 2020**Habitat** Disturbed, sandy places avoiding acid conditions.

**Commentary** Large tufted biennial, the stems ascending, the leaves roughly-hairy, the inflorescence comprising large branching spikes of large, bell-shaped blue flowers with exerted stamens. Locally scarce, now lost from inland sites, present only near the north and south ends of our coastline where some populations may have derived from wild-flower seed mixes. Elsewhere widespread but rather infrequent especially north of the Highland Boundary Fault, recorded recently from 13 tetrads in Angus and 12 in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Nigg, Greyhope Bay	NJ969054	2019	Loizou, T.
Tullos Hill, rough ground	NJ956034	2019	Elston, D.
Mathers, open ground on cliff	NO78286628	2020	Elston, D.; Cox, J.
St Cyrus, roadside	NO738635	2001	Malster, J.
St Cyrus NNR, grassland	NO75146446	2020	Elston, D.
<hr/>			
<i>Banchory</i> [perhaps in NO69]	NO79	1820-1859	Brichan, J.
<i>Stonehaven</i> (hectad)	NO88	1964	
<i>Arbuthnott</i> [perhaps in NO77]	NO87	1820-1859	Chrystall, L.

**M158 *Myosotis laxa x scorpioides* = *M. x suzae* Domin****A Hybrid Forget-me-not****Local Origin** Native x Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2002 to 2002**Habitat** Wet ground.

**Commentary** Short-lived perennial, the stems with appressed hairs, ascending, topped with a coil of flowers with lanceolate sepals and styles at least equalling the corolla tube below the five-lobed blue flowers. Locally rare, found once by our resident BSBI *Myosotis* referee. Elsewhere widespread but rarely recorded, with only four records ever from Scotland.



Location	Grid Ref	Year	Recorder / Reporter
Blackhall Forest, wet mud by gravel pit	NO645958	2002	Welch, D.

**M159 *Myosotis sylvatica* Ehrh. ex Hoffm.****Wood Forget-me-not****Local Origin** Native**National Status** -, -, -**Local Status** LS; 10 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 7/7/4**Earliest to Latest Record (or start and end of intervals)** 1880 to 2021**Habitat** Moist ground in old woodland.

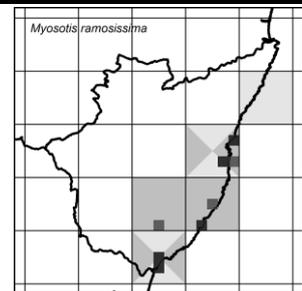
**Commentary** Erect, rather hairy biennial or perennial, the leaves unstalked, bluish-green forming a basal rosette and on the stems, the flowers have hooked hairs on the calyx tube and flat, blue, five-lobed corollas with a yellow centre. Locally scarce, recorded both from natural sites and from policy woodlands, the garden plant is this species and some sites may be derived from introductions. Elsewhere widespread and frequent in lowland areas, in Scotland mostly eastern, recorded from 22 tetrads in Angus and 34 in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Strachan, by lane to Scolty House	NO685932	2021	Welch, D.
Raemoir (tetrad)	NO69Z	2010-2016	Welch, D.
Crathes Castle, grounds	NO73299699Ø	2010	Loizou, T.
Crathes, Milton of Crathes	NO74209608Ø	2012	Green, I.
Kirkton of Maryculter, E of (tetrad)	NO89U	2010-2016	Welch, D.
Fetteresso, Tewel	NO8254	2017	Welch, D.
Glenbervie, policies	NO7680	2004	Welch, D.
Benholm, Mill of (tetrad)	NO86E	2014-2017	Welch, D.
Inglismaldie, policy woodland	NO66N	2002	Welch, D.
Fettercairn, Fasque, woodland	NO67M	2016	Welch, D.
Bridge of Dye (hectad)	NO68	1950	

**M160 *Myosotis ramosissima* Rochel****Early Forget-me-not****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/3**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Dry, sandy places.

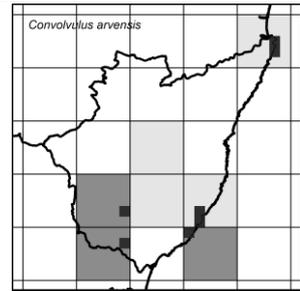
**Commentary** Small, hairy annual, the stems erect, the leaves unstalked, mostly basal, the flowers with stalks no longer than the calyx which is clothed by hooked hairs, the corollas tiny, deep-blue. Locally scarce, coastal but could be found on sandy ground inland, early flowering and so possibly under-recorded. Elsewhere widespread and frequent in the south, becoming less frequent and mostly coastal further north, in Scotland mostly by the east coast, recorded from 13 tetrads in Angus and 5 in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus NNR, open sandy ground in dunes	NO75276447	2021	Elston, D.
Gourdon, bare place in coastal grassland	NO822706	2002	Welch, D.
Benholm, coast	NO87948388R	2023	Harding, M.
Garron Point, rear dunes at Skatie Shore	NO8987	2007	Welch, D.
Kinneff, short coastal grassland	NO853743	1997	Welch, D.
Garvock, near kirk	NO7470	1997	Welch, D.
Portlethen (hectad)	NO99	1955	Robson, N.

**M161 *Convolvulus arvensis* L.****Field Bindweed****Local Origin** Native**National Status** -, -, -**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/4/4**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Dry, open grassy places, often where recently disturbed.

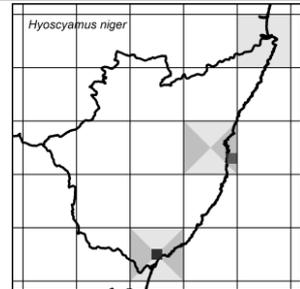
**Commentary** Sprawling perennial, the stems long and trailing, the leaves sagittate, the flowers large, comprising upturned trumpet-shaped pink-white petals above short green sepals. Locally scarce, now mostly coastal, once more widespread. Elsewhere a lowland plant, widespread and frequent in the south, in Scotland much declined and now mostly near the east coast, recorded from ten tetrads in Angus and five in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Marykirk, grassland on railway embankment	NO68666723	2022	Elston, D.
Haughs of Benholm, by path	NO816693	2011	Green, I.
Gourdon, grassland by shore	NO82377067	2020	Elston, D.; Cox, J.
Inverbervie, by coastal path	NO832720	2018	Green, I.
Altens, by cliff-top path	NJ96660346	2018	Elston, D.
Nigg, grassland NE of St Fittick's Road	NJ96310500	2021	Elston, D.
<i>Arbuthnott [perhaps in NO77]</i>	NO87	1820-1859	Chrystall, L.
<i>Auchenblae (hectad)</i>	NO77	1950-1960	
<i>Glenbervie (hectad)</i>	NO78	1950-1960	

**M162 *Hyoscyamus niger* L.****Henbane****Local Origin** Archaeophyte**National Status** VU, -, SBL**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Loose substrates on the sea shore.

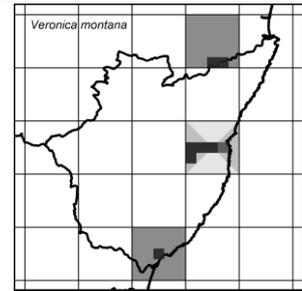
**Commentary** Large annual or biennial, the stems ascending, the leaves large, hairy, the flowers with large, hairy, leaf-like bracts, large and creamy-yellow with dark purplish centres. Locally rare, still occurring in small quantity at St Cyrus from at least as far back as 1850. Elsewhere widespread but infrequent in the south and east, much less frequent and declining further north with only one recent record (Revack Estate, Moray) north of St Cyrus.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus NNR, base of cliffs at N end of bay	NO75906490	2022	Elston, D.; Alampo, T. <i>et al.</i>
<i>Dunnottar Castle, rock</i>	NO882838	1950-1960	Scott, G.
<i>Nigg Parish</i>	NJ90	1880-1919	Trail, J.

**M163 *Veronica montana* L.****Wood Speedwell****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/5/5**Earliest to Latest Record (or start and end of intervals)** 1969 to 2020**Habitat** Old woodland on rich soils.

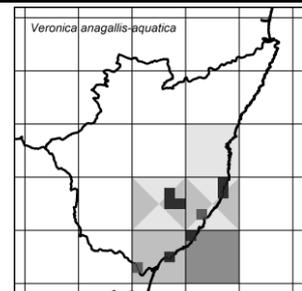
**Commentary** Low-growing perennial, the stems creeping, with hairs all around, the leaves lobed and petiolate, the flowers small with mauve-streaked petals. Locally scarce, recorded mostly from by the River Carron and the River Dee. Elsewhere a lowland plant, widespread and frequent apart from in northern Scotland, recorded recently from 16, 2 and 7 tetrads in Angus, South and North Aberdeenshire respectively.



Location	Grid Ref	Year	Recorder / Reporter
Maryculter, woodland at Templars' Park	NJ84900008Ø	2004	Waddell, J.
Kingcausie, woodland	NJ86480042Ø	2004	Waddell, J.
Kirktown of Fetteresso, N bank of Carron Water	NO85158552	2020	Marriott, R.
Fetteresso, Elfhill	NO80518469Ø	2011	Green, I.
St Cyrus, disused railway line	NO74476406	2009	McIntosh, J.; Couch, A.

**M164 *Veronica anagallis-aquatica* L.****Blue Water-speedwell****Local Origin** Native**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/6/6**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Marshy, often open ground.

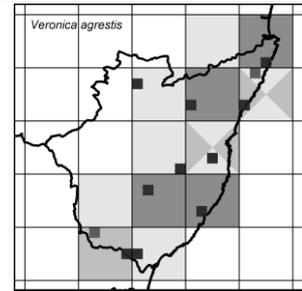
**Commentary** Medium-sized annual to perennial, the stems erect, the leaves opposite, the flowers deep blue in long racemes. Locally scarce, found by the Bervie Water and near the coast. Elsewhere widespread and frequent in the south east, infrequent elsewhere, in Scotland infrequent in lowland areas and absent from much of the north-west mainland, recently recorded from six, one and five tetrads in Angus, South and North Aberdeenshire respectively.



Location	Grid Ref	Year	Recorder / Reporter
Catterline, Milton of Uras, streamside	NO86777986Ø	2010	Green, I.
Braidon Bay, stream at shore	NO86817743	2018	Elston, D.
Arbuthnott, by Bervie Water at Deep	NO77867799Ø	2012(2023)	Lawrie, J.; Donald, M.
Arbuthnott, shingle by Bervie Water at Mill of Garvock,	NO77477482	2023	Elston, D.
Arbuthnott, by Bervie Water	NO79177484Ø	2010	Green, I.
Haughs of Benholm	NO81296852Ø	2011	Green, I.
Milton of Mathers, in den	NO76946560Ø	2010	Green, I.
Inverbervie, by Bervie Water, +/- 2.5km from Grid Ref	NO824735Ø	1981	Holmes, N.
Den of Morphie, streamside	NO705638	1994	Welch, D.
Stonehaven (hectad)	NO88	1950-1969	

**M165 *Veronica agrestis* L.****Green Field-speedwell****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LS; 10 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 7/7/7**Earliest to Latest Record (or start and end of intervals)** 1950 to 2023**Habitat** Disturbed ground, mostly the margins of arable fields.

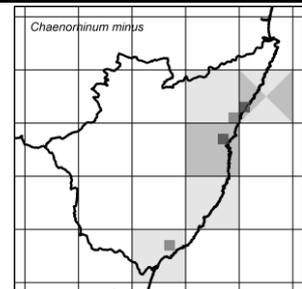
**Commentary** Low-growing rather hairy annual, the stems creeping or ascending, purplish, the leaves unstalked and lobed, the flowers small, the petals mostly blue with some white on the lowest, the seed capsules with two hairy, forward-pointing lobes. Locally scarce, widely scattered but perhaps reduced in distribution. Elsewhere widespread and frequent in lowland areas but greatly reduced in Scotland, recorded recently from 16 and 14 tetrads in Angus and South Aberdeenshire respectively.



Location	Grid Ref	Year	Recorder / Reporter
Banchory, pavement E of trees	NO709963	2006	Green, I.; Duncan, M.
Durriss, Bruntyairds Wood	NO807939	2014	Green, I.
Cove Bay, bare vegetable field	NJ95440069	2013	Welch, D.
Newtonhill, field margin	NO91709381	2018	Peaker, A.
Dunnottar, field margin near Loch of Lumgair	NO850826	2021	Elston, D.
Drumlithie, dump	NO789809	2010	Welch, D.
Auchenblae, Mains of Fordoun, rough ground	NO73187695	2023	Elston, D.
Inverbervie, graveyard	NO83057254	2023	Elston, D.
Marykirk, edge of arable field	NO683657	2006	Welch, D.
Morphie, waste ground in curtilage at Canterland	NO707648	2016	Welch, D.
Marywell, SE of	NO9398	1988	Birse, E.L.; Birse, E.M.
Fettercairn, Edzell Airbase (tetrad)	NO66J	1988	Birse, E.L.; Birse, E.M.
<i>Kingcausie, Blairs (hectad)</i>	<i>NJ80</i>	<i>1964</i>	
<i>Fettercairn (hectad)</i>	<i>NO67</i>	<i>1950-1960</i>	

**M166 *Chaenorhinum minus* (L.) Lange****Small Toadflax****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1893 to 1999**Habitat** Disturbed ground by the East Coast main line.

**Commentary** Small, glandular-hairy annual, the stems erect, each flower small, pale, with a divided bottom lip and spur. Locally with no recent records, perhaps never becoming well established. Elsewhere widespread and generally frequent in lowland areas south of the Highland Boundary Fault, much less frequent further north where it has been lost from many former sites, the closest recent records are from Balgavies and west of Forfar (Angus) in the south and from near Elgin (Moray) in the north.



Location	Grid Ref	Year	Recorder / Reporter
Newtonhill, railway	NO910935	1997	Welch, D.
Stonehaven, railway	NO8686	1999	Elston, D.
<i>Muchalls, railway just S of station</i>	<i>NO8991</i>	<i>1893</i>	<i>Trail, J.</i>
<i>Inverbervie (hectad)</i>	<i>NO87</i>	<i>1950-1960</i>	<i>Webster, M.</i>
<i>Den Finella, railway nearby</i>	<i>NO7766</i>	<i>1957</i>	<i>Duncan, U.</i>

**M167 *Linaria repens* (L.) Mill.**

Pale Toadflax

Local Origin Archaeophyte

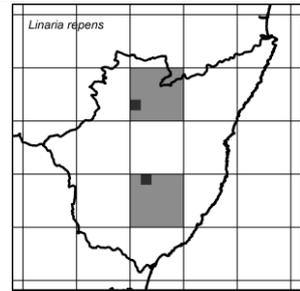
National Status -, -, -

Local Status LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/1

Earliest to Latest Record (or start and end of intervals) 2018 to 2020

Habitat Tracksides and dykes.

**Commentary** Patch-forming, grey-green perennial, the stems rather weak, the leaves narrowly linear, the flowers two-lipped with a large boss on the lower, the corollas white with pink-purple veins. Locally rare, a recent colonist but seemingly well established. Elsewhere widespread but infrequent except in some western areas, apparently lost from many former sites, recently recorded from Montrose and north of Dundee (Angus) and from a large concentration of sites in Speyside (Moray).



Location	Grid Ref	Year	Recorder / Reporter
Tilquhillie, Craig of Affrusk, ride in plantation	NO70919327	2018	Elston, D.; Cox, J.
Auchenblae, old tall dyke	NO726787	2020	Welch, D.

**M168 *Littorella uniflora* (L.) Asch.**

Shoreweed

Local Origin Native

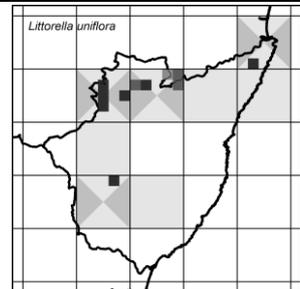
National Status -, -, -

Local Status LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/7/7

Earliest to Latest Record (or start and end of intervals) 1820 to 2019

Habitat Base-poor water bodies, either permanently or seasonally submerged.

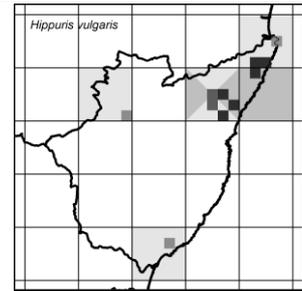
**Commentary** Stoloniferous, lawn-forming perennial aquatic, the leaves all basal, long, narrow, stiff, lacking air channels, the stems thin, the flowers with stamens on very long filaments. Locally scarce, still quite widespread but lost from many former sites perhaps including Loirston Loch due to eutrophication. Elsewhere widespread and frequent on acid ground in the north and west, including hill areas of Angus and South Aberdeenshire, also along the coast of North and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Strachan, artificial lochan near Waulkmill	NO64519213Ø	2019	Loizou, T.
Blackhall, by R Dee	NO64269602	2012	Green, I.
Blackhall, in R Dee	NO68179589Ø	2012	Green, I.
Crathes, in R Dee	NO7396	2003	Welch, D.
Loirston Loch	NJ938011	2007	Welch, D.
Glensaugh, Loch Saugh, stony shore	NO676787	2000	Welch, D.
Banchory, R Dee +/- 2.5km lengths	NO713960Ø	1979	Holmes, N.
Durris, in R Dee near Park Bridge	NO7998	1973	
Kirkton of Durris, NE of, R Dee +/- 2.5km lengths	NO784976Ø	1979	Holmes, N.
Banchory-Devenick, quarry pool at Whistlebrae	NJ928002	1995	Leftwich, A.
Bridge of Dye (hectad)	NO68	1950-1969	
Loch of Park	NO79U	1847	Mactier, W.
Maryculter Parish [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Muchalls [perhaps in NO99]	NO89	1820-1859	Stephen
Banchory-Devenick Parish [perhaps in NJ90]	NO99	1880-1919	Trail, J.
Garvock	NO77	1820-1859	Stephen

**M169 *Hippuris vulgaris* L.****Mare's-tail****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/5/6**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Ponds and lochs.

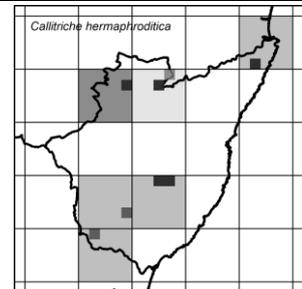
**Commentary** Stand-forming perennial aquatic, the stems erect, the leaves underwater differing from those above which are flat, narrow and in whorls. Locally scarce, lost from some sites, in new sites sometimes appearing to be a deliberate introduction. Elsewhere widespread but rather infrequent and absent from many areas including much of the western half of mainland Scotland, recorded recently from seven and 21 tetrads in Angus and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Loirston Loch	NJ937010	2021	Green, I.
Marywell, pool	NO932995	2004	Welch, D.
Muchalls, marsh E of Nether Cairnhill	NO89839313	2023	Elston, D.
Netherley, Red Moss, peaty pool	NO860943	2004	Waddell, J.; Green, I. <i>et al.</i>
Netherley, S of, fishing loch	NO86119027	2019	Elston, D.
<hr/>			
Strachan to Inchmarlo (hectad)	NO69	1957	Sommerville, A.
Strachan, Pitreadie	NO69V	1820-1859	Stephen
Nigg Bay, marsh above	NJ9604	1820-1859	MacGillivray, P.
St Cyrus, at Jackston	NO76T	1820-1859	Stephen
<hr/>			
<b>INTRODUCED / PLANTED</b>			
Banchory-Devenick, excavated pond near Blue Hill	NJ921003	2019	Elston, D.

**M170 *Callitriche hermaphroditica* L.****Autumnal Water-starwort****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/3/3**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Nutrient rich ponds and lochs.

**Commentary** Submerged annual, the leaves narrowly linear, in opposite pairs, the flowers inconspicuous in leaf-axils, barely-stalked, developing seeds with a broadly winged margin. Locally scarce, best looked for in late summer when the fruits are mature. Elsewhere generally a northern species, most frequently recorded from the Scottish Central Belt to the Highland Boundary Fault, apparently lost from many places, recorded recently from 11 tetrads in Angus, also five and one in South and North Aberdeenshire respectively.



Location	Grid Ref	Year	Recorder / Reporter
Banchory, Lochhead of Leys, fishing lake	NO696977	2005	Welch, D.
Crathes Castle, lake	NO741965	2010	Loizou, T.
Loirston Loch	NJ93900098	2021	Green, I.
Glenberrie, eutrophic pond W of Mains of Mondyne	NO763793	2023	Elston, D.
<hr/>			
Fettercairn, loch at Edzell Airbase	NO6269	1988	Noltie, H.; Pritchard, J.
Loch of Park	NO7698	1878	Sim, T.

**M171 *Callitriche platycarpa* Kütz.****Various-leaved Water-starwort****Local Origin** Native**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1879 to 1981**Habitat** Mud by, or in, moving water.

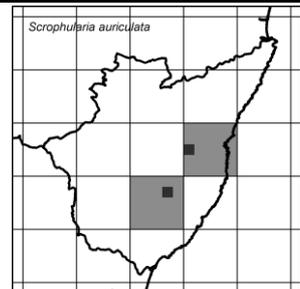
**Commentary** Annual aquatic, the underwater leaves in opposite pairs, the floating leaves if present in a rosette, the fruits with a very narrow wing. Locally with no recent records, only ever found by the Bervie Water as part of one survey of freshwater bodies, perhaps being otherwise overlooked. Elsewhere widespread but infrequent, local north of the Highland Boundary Fault, apparently decreasing but this could be due to lack of specialist surveys, recorded recently from near Cortachy and the hectad south of Forfar (Angus), also Castle Fraser (South Aberdeenshire) and near Turriff (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Glenbervie, in Bervie Water, +/-2.5km lengths of Grid Ref	NO782797Ø	1981	Holmes, N.
Inverbervie, in Bervie Water, +/- 2.5km from Grid Ref	NO824735Ø	1981	Holmes, N.
Strachan, in bogs	NO69	1879	Trail, J.

**M172 *Scrophularia auriculata* L.****Water Figwort****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 2007 to 2011**Habitat** Stream sides, wet grassland.

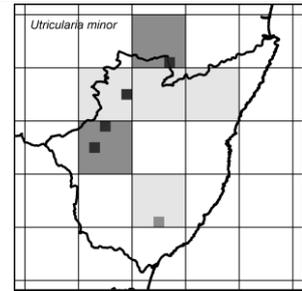
**Commentary** Tall perennial, the stems erect, four-sided, each corner with a flexible wing, the leaves broad, blunt-tipped with prominent veins and toothed margins, the flowers small, in diffuse whorls, the petals purple-brown, the sepals green with a scarious margin. Locally rare, only twice recorded, potentially a recent colonist but may be a garden escape. Elsewhere widespread and frequent south of the Scottish border, in Scotland mostly at scattered locations near the coast apart from the Central Belt, recorded recently from Monifieth (Angus) and with a cluster of recent records close to Aberdeen (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Arbuthnott, streamside at Deep	NO77867799	2007	Lawrie, J.; Donald, M.
Fetteresso, Carmont, loading bay in woodland	NO819843	2011	Welch, D.

**M173 *Utricularia minor* L.****Lesser Bladderwort****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Acid boggy pools.

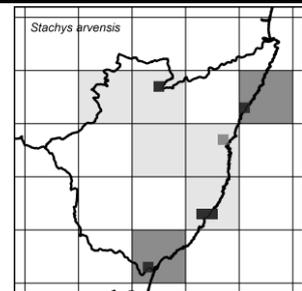
**Commentary** Free-floating perennial aquatic, the stems bearing small, forking, green leaves usually distinct from other stems bearing animal-catching bladders, emergent stems bear yellow flowers in some years. Locally scarce and shy-flowering, once more widespread, threatened by loss of open water at the Auchattie site. Elsewhere widespread and generally frequent in heathy, particularly upland, areas, declining in lowland regions to the south and east, still present at several sites in and around upper Glen Esk (Angus) and mid Deeside (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Glen Dye, flush near Miller`s Bog	NO63728582	2022	Elston, D.; Peaker, A.
Strachan, mire near Greendams	NO64188969	2020	Elston, D.
Auchattie, pool in sphagnum mire	NO687946	2020	Elston, D.; Cox, J.
Hirn, bog at Rashesloch	NJ76160024	2023	Elston, D.
Garvock, marsh half mile N from Kirk	NO7471	1820-1859	Stephen
Loch of Park	NO79	1848	
Kingcausie, near [perhaps in NJ80]	NO89	1820-1859	Milne, D.

**M174 *Stachys arvensis* (L.) L.****Field Woundwort****Local Origin** Archaeophyte**National Status** NT, -, SBL**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/5/5**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Disturbed ground, particularly field margins.

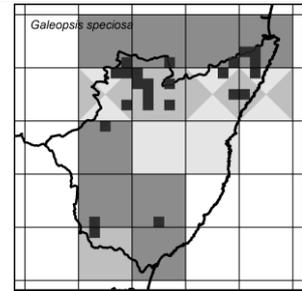
**Commentary** Short, hairy annual, the stems erect, square in section, the leaves rugose and roundly lobed, the flowers small, pinkish with a long calyx. Locally scarce, widely but very thinly distributed in the lowlands and never in large populations. Elsewhere widespread but rarely frequent in the lowlands, in Scotland local, mostly coastal, eastern, and lost from many places, the closest recent records being from near Kingoodie and Dunkeld (Mid Perthshire), also from near Aboyne and two sites in Aberdeen (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Raemoir, Myrie Hill, track	NJ70090032	2022	Elston, D.
Crathes, edge of barley field	NO744962	2011	Welch, D.
Newtonhill, N of, stubble & field margin	NO916938	2019	Peaker, A.
Inverbervie, edge of arable field	NO842728	2011	Green, I.
Morphie, by footpath on former railway	NO72476236	2019	Elston, D.
Strachan, field	NO69	1872	Sim, T.
Banchory [perhaps in NO69]	NO79	1820-1859	Brichan, J.
Stonehaven, village of Cowie	NO8786	1820-1859	Fleming, A.
Glenbervie (hectad)	NO78	1954	Gardiner, J.

**M175 *Galeopsis speciosa* Mill.****Large-flowered Hemp-nettle****Local Origin** Archaeophyte**National Status** VU, -, SBL**Local Status** LO; 11+ Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 11/18/16**Earliest to Latest Record (or start and end of intervals)** 1950 to 2023**Habitat** Arable fields or disturbed ground.

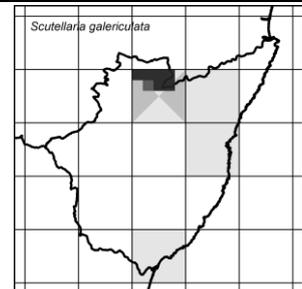
**Commentary** Bristly-hairy annual, the stems erect, not swollen at the nodes, the leaves in opposite pairs, the flowers large, pale yellow, often with a purple lip. Locally widespread and frequent in the lowlands, recorded recently from 19 tetrads. Elsewhere widespread but declining and frequent only in a few areas including north-east Scotland, recorded recently from only two tetrads in Angus but from 75 in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
<b>SAMPLE</b>			
Glen Dye, earth heap in pasture	NO655884	2013	Welch, D.
Strachan, E of (monad)	NO6892	2004	Welch, D.
Banchory, Lochton of Leys, edge of arable field	NO704974	2020	Welch, D.
Glassel, arable field	NO668986	2021(2023)	Welch, D.
Tilquhillie, Glenhead, roadside ditch	NO73749299	2022	Elston, D.
Kingcausie, Blairs	NJ88760092Ø	2004	Waddell, J.
Kincorth, fields SW of	NJ92840250Ø	2019	Loizou, T.
Marywell (tetrad)	NO99J	2004	Welch, D.
Netherley, Cookney, arable field of Newhall Farm	NO88369436	2020	Peaker, A.
Fettercairn, SW of, road verge	NO63897094	2021	Elston, D.

**M176 *Scutellaria galericulata* L.****Skullcap****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/6/12**Earliest to Latest Record (or start and end of intervals)** 1820 to 2010**Habitat** Damp, shady grassland.

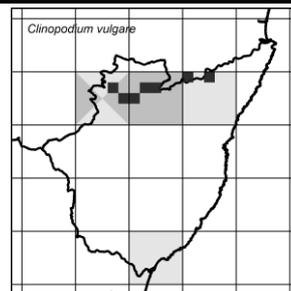
**Commentary** Short perennial, the stems erect, square, the leaves narrow, shallowly toothed, in opposite pairs alternating in direction, the flowers blue, in adjacent pairs in the leaf axils. Locally scarce, all recent records are tightly clustered round Crathes though it was formerly more widespread. Elsewhere a lowland species, widespread and generally frequent, in Scotland most frequent in the west, declining or absent from other parts, recorded recently from Sluie, Clunie and by the River Dee in Aberdeen (South Aberdeenshire), also from Glen Esk, near Memus and several sites around Forfar (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Crathes, wet woodland with Salix	NO723980	2007	Welch, D.
Crathes Castle, marsh by lake	NO740966	2010	Welch, D.
Hirn, wet woodland	NO75099937Ø	2010	Green, I.
Crathes, by R Dee	NO76159632Ø	2010	Green, I.
Muchalls, marsh along shore among Iris [perhaps in NO99]	NO89	1830-1839	Murray, A.
Stonehaven, shore 2 miles to N	NO88	1880-1919	Trail, J.
St Cyrus (hectad)	NO76	1950-1960	

**M177 *Clinopodium vulgare* L.****Wild Basil****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/6/7**Earliest to Latest Record (or start and end of intervals)** 1750 to 2023**Habitat** Sunny spots in dry grassland.

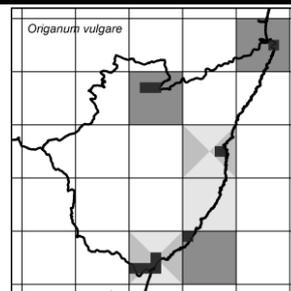
**Commentary** Tufted perennial, the stems square, hairy, erect, the leaves rather rounded in opposite pairs, the flowers pink in dense whorls in the upper leaf axils. Locally scarce, well-established along the River Dee, only once recorded from St Cyrus where it may be refound. Elsewhere widespread and frequent in the south, infrequent further north, in Scotland occurring mainly in the major, east-flowing, river valleys, recorded recently in Angus only from Barry Links and near Lunan Bay, also in South Aberdeenshire only from Potarch.



Location	Grid Ref	Year	Recorder / Reporter
Banchory, W of, north bank of R Dee	NO67389637	2020	Elston, D.
Banchory, shingle island of R Dee	NO705954	2006	Green, I.; Watson, A.
Crathes, bank by former railway	NO74579625	2019	Welch, D.
Durris, by R Dee downstream from Park Bridge	NO80149872	2021(2023)	Elston, D.
Maryculter, by R Dee	NO84389987Ø	2010	Green, I.
St Cyrus	NO76	1967	Morgan, N.

**M178 *Origanum vulgare* L.****Wild Marjoram****Local Origin** Native**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/9/9**Earliest to Latest Record (or start and end of intervals)** 1820 to 2020**Habitat** Sunny spots in dry grassland.

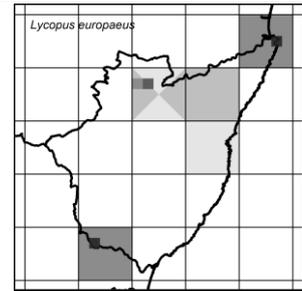
**Commentary** Tufted perennial, the stems square, hairy, erect, the leaves rather rounded in opposite pairs, branching repeatedly above, the flowers pale pink small clusters. Locally scarce, mostly coastal. Elsewhere widespread and frequent in lowland areas, becoming less frequent further north and absent from much of Scotland.



Location	Grid Ref	Year	Recorder / Reporter
Morphie, rocky outcrop by R. North Esk	NO71616224	2020	Elston, D.
St Cyrus, grassland on cliffs	NO75186458	2009	McIntosh, J.; Turner, A.
St Cyrus, disused railway line	NO74366393	2009	McIntosh, J.; Turner, A.
Haughs of Benholm, grassland	NO809681	2011	Green, I.
Dunnottar, Castle Haven, grassland on cliff	NO87878425	2020	Elston, D.
Nigg Bay, steep grassland	NJ965045	2014	Welch, D.
Crathes, disturbed bank at new railway	NO740961	2015	Welch, D.
Arbuthnott [perhaps in NO77]	NO87	1820-1859	Chrystall, L.

**M179 *Lycopus europaeus* L.****Gypsywort****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2018**Habitat** Wet places on rich soils.

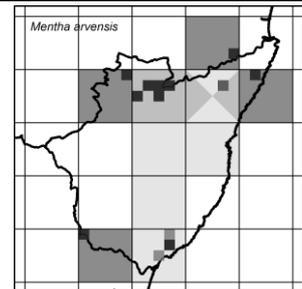
**Commentary** Perennial spreading by rhizomes to form small stands, the stems erect, square, the leaves opposite, strongly-toothed, the flowers small, white, in dense whorls above leaf-like bracts. Locally rare, probably self-seeded at Capo Plantation but introduced at Torry, once more widely distributed. Elsewhere widespread and generally frequent in lowland areas, in Scotland mostly western, in Angus recorded recently only from Monifieth whilst in South Aberdeenshire only from in Aberdeen City.



Location	Grid Ref	Year	Recorder / Reporter
<b>Fettercairn, Capo Plantation, by pond</b>	<b>NO63196673</b>	<b>2018</b>	<b>Elston, D.</b>
Crathes Castle, grounds	NO7396	1990	NTS Staff
Maryculter (hectad)	NO89	1970	
<i>Stonehaven, at Ury</i>	<i>NO88</i>	<i>1820-1859</i>	<i>Smith, A.</i>
<i>Loch of Leys, at E end</i>	<i>NO7097</i>	<i>1820-1859</i>	<i>Adams, F.</i>
<b>INTRODUCED / PLANTED</b>			
<b>Nigg, St Fittick's Community Park</b>	<b>NJ96170480Ø</b>	<b>2019</b>	<b>Loizou, T.</b>

**M180 *Mentha arvensis* L.****Corn Mint****Local Origin** Native**National Status** -, -, SBL**Local Status** LS; 10 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 6/10/12**Earliest to Latest Record (or start and end of intervals)** 1934 to 2016**Habitat** Damp grassland, often with an element of disturbance.

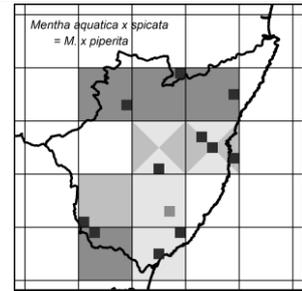
**Commentary** Hairy, patch-forming perennial with a musty scent, the stems erect, square, with leaves stalked, in opposite pairs, the flowers in whorls in the upper leaf axils but not forming a terminal head, the corollas pale pink, the calyx with short, triangular teeth. Locally scarce, recorded from widely scattered sites with a concentration in the River Dee valley. Elsewhere widespread and frequent in much of lowland Britain, becoming less frequent further north, in Scotland widely scattered and apparently lost from a large proportion of former sites, recorded recently from 15 and 8 tetrads in South Aberdeenshire and Angus respectively.



Location	Grid Ref	Year	Recorder / Reporter
<b>Fettercairn, woodland by R North Esk opposite Edzell</b>	<b>NO603689</b>	<b>2003</b>	<b>Welch, D.</b>
<b>Den Finella</b>	<b>NO76926729Ø</b>	<b>2014</b>	<b>Green, I.</b>
<b>Marywell, Gallowhill</b>	<b>NO93599989Ø</b>	<b>2004</b>	<b>Waddell, J.; Sharp, C.</b>
<b>Ardoe, by R Dee</b>	<b>NJ89510240</b>	<b>2011</b>	<b>Welch, D.</b>
<b>Kirkton of Durriss, woodland by R Dee</b>	<b>NO777967</b>	<b>2016</b>	<b>Welch, D.</b>
<b>Crathes, N bank of R Dee</b>	<b>NO76279644</b>	<b>2011</b>	<b>Welch, D.</b>
<b>Crathes Castle, grounds</b>	<b>NO74009684Ø</b>	<b>2010</b>	<b>Loizou, T.</b>
<b>Crathes, N bank of R Dee</b>	<b>NO72289644Ø</b>	<b>2006</b>	<b>Green, I.</b>
<b>Banchory, N bank of R Dee</b>	<b>NO7095</b>	<b>2006</b>	<b>Green, I.; Duncan, M.; Dixon, N.</b>
<b>Raemoir, wet hollow in arable field</b>	<b>NO687991</b>	<b>2002</b>	<b>Welch, D.</b>
Maryculter, Invercrynoch	NO8697	1973	
<i>St Cyrus</i>	<i>NO7464</i>	<i>1936</i>	<i>Graham, R.</i>
<i>Johnshaven, NW of</i>	<i>NO7768</i>	<i>1952</i>	<i>Graham, R.</i>
<i>Auchenblae (hectad)</i>	<i>NO77</i>	<i>1950-1969</i>	
<i>Glenbervie (hectad)</i>	<i>NO78</i>	<i>1950-1969</i>	
<i>Stonehaven (hectad)</i>	<i>NO88</i>	<i>1950-1969</i>	

**M181 *Mentha aquatica x spicata* = *M. x piperita* L.****Peppermint****Local Origin** Native x Archaeophyte**National Status** -, -, -**Local Status** LS; 10 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 7/10/10**Earliest to Latest Record (or start and end of intervals)** 1939 to 2019**Habitat** Damp grassland, by roads or watercourses.

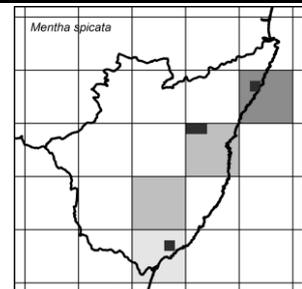
**Commentary** Patch-forming, sweet-scented perennial, the stems erect, square, the leaves shortly stalked, in opposite pairs, the flowers in whorls compressed above to a terminal head, the corollas pale pink, the calyx teeth triangular, long-pointed. Locally scarce, recorded from widely scattered, lowland sites. Elsewhere widespread but infrequent in lowland Britain, in Scotland mostly eastern and apparently lost from many former sites, recorded recently from 13 tetrads in Angus and 16 in South Aberdeenshire.



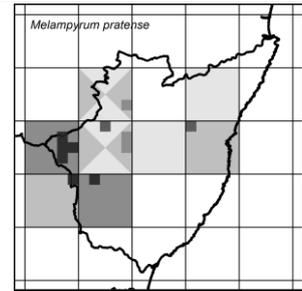
Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, Saltire Wood	NO60987101Ø	2012	Green, I.
Fettercairn, streamside by Edzell Airbase	NO626696	2003	Welch, D.
St Cyrus, streamside	NO742649	2003	Welch, D.
Glenbervie, by Burn of Guinea	NO7481	2007	Welch, D.
Benholm, by Burn of Benholm	NO78986921Ø	2009	Green, I.
Dunnottar, streamside	NO880838	2009	Welch, D.
Stonehaven, roadside	NO850845	2011	Welch, D.
Fetteresso, Swanley, roadside	NO837863	2012	Welch, D.
Netherley, Cookney, roadside	NO882951	2013	Welch, D.
Strachan	NO68229230Ø	2019	Loizou, T.
Garvock, Sheriff's Kettle	NO776724	1949	Graham, R.

**M182 *Mentha spicata* L.****Spear Mint****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/4/4**Earliest to Latest Record (or start and end of intervals)** 1950 to 2017**Habitat** Riversides, marshes.

**Commentary** Stand-forming, aromatic, nearly glabrous perennial, the leaves lanceolate, sessile, in opposite pairs, the flowers individually small, in whorls that merge into one another to form a narrowly conical terminal head. Locally scarce, at scattered sites in lowland areas. Elsewhere widespread and frequent in most areas but avoiding high ground, recorded recently from 14 tetrads in Angus and 18 in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Den Finella	NO77276619Ø	2010	Green, I.
Rickarton, SW of	NO80348892Ø	2010	Green, I.
Rickarton	NO83618935Ø	2017	Espie, A.
Portlethen, coastal grassland	NO937967	2006	Welch, D.
Auchenblae (hectad)	NO77	1971	Somerville, A.; Duncan, U.

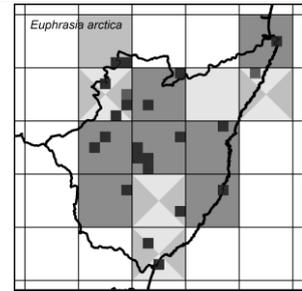
**M183 *Melampyrum pratense* L.****Common Cow-wheat****Local Origin** Native**National Status** -, -, -**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Heathland.

**Commentary** Short annual, the stems erect, the leaves narrow, opposite, tapering evenly to a point, the flowers yellow with a long corolla-tube, the calyx teeth swept upwards. Locally scarce, only recorded recently from the upper reaches of Glen Dye, once much more widespread. Elsewhere widespread and frequent on heathy ground, lost from many areas marginal to its core range but still frequent from the hills of Angus and South Aberdeenshire.

Location	Grid Ref	Year	Recorder / Reporter
<b>Cairn o' Mount, Hound Hillock, heathland</b>	<b>NO630789</b>	<b>2022</b>	<b>Peaker, A.; Blow, C.</b>
<b>Cairn o' Mount, Whitelaws, heathland</b>	<b>NO62998001</b>	<b>2022</b>	<b>Elston, D.</b>
<b>Glen Dye, Sandy Hill, heathy grassland</b>	<b>NO59158474</b>	<b>2022</b>	<b>Elston, D.</b>
<b>Glen Dye, Craigangowan, heathland</b>	<b>NO58787873</b>	<b>2020</b>	<b>Elston, D.</b>
<b>Glen Dye, by Burn of Saughs</b>	<b>NO58R</b>	<b>2018</b>	<b>Elston, D.</b>
<b>Mount Battock, The Leggie, heathland</b>	<b>NO56758577</b>	<b>2021</b>	<b>Elston, D.</b>
Fettercairn, The Burn (hectad)	NO57	-1999	
Mergie, planted conifer woodland	NO8088	1999	Welch, D.
Strachan to Inchmarlo (hectad)	NO69	-1999	
Glen Dye, pinewood	NO6488	1998	Welch, D.
<i>Glenbervie (hectad)</i>	<i>NO78</i>	<i>1950-1969</i>	
<i>Kingcausie, woods [perhaps in NJ80]</i>	<i>NO89</i>	<i>1820-1859</i>	<i>Dickie, G.</i>
<i>Strachan, Gellan woods</i>	<i>NO6992</i>	<i>1820-1859</i>	<i>Stephen</i>
<i>Banchory [perhaps in NO79]</i>	<i>NO69</i>	<i>1820-1859</i>	<i>Brichan, J.</i>
<i>Glen Dye, at Bridge of Dye</i>	<i>NO68X</i>	<i>1820-1859</i>	<i>Stephen</i>
<i>Strachan, by streams in Kerloch</i>	<i>NO68Y</i>	<i>1820-1859</i>	<i>Stephen</i>

**M184 *Euphrasia arctica* Lange ex Rostrup****Arctic Eyebright****Local Origin** Native**National Status** NT, -, -**Local Status** LO; 11+ Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/5/6**Earliest to Latest Record (or start and end of intervals)** 1908 to 2023**Habitat** Short grassland.

**Commentary** Short sturdy annual, the stems straight, erect, branches short, the leaves in pairs, broadly ovate or deltoid, the flowers large, predominantly white, the seed capsule shorter than or equal in length to the calyx. Locally widely distributed though not recorded recently from three hectads but may be under-recorded. Elsewhere widespread in the north and west, most frequent in upland areas, apparently lost from many former sites still well represented in upland Angus and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
<b>SAMPLE</b>			
St Cyrus NNR, coastal grassland	NO7463	2005	Welch, D.
Catterline, close to shore of headland	NO87047788	2020	Elston, D.
Nigg, Girdle Ness	NJ9705	2015	Meek, E.
Durris, Park Bridge, grassland by R Dee	NO79779833	2023	Elston, D.
Raemoir, grassland by track in forestry	NJ69130003	2021	Elston, D.
Woodend, riverside grassland at Cairnton	NO645963	2006	Welch, D.
Strachan, wet grassland	NO67849156	2016	Welch, D.
Glen Dye, grassland near Glendye Lodge	NO6486	2022	Elston, D.; Peaker, A.
Drumtochty Forest, grassland by track	NO70468514	2022	Elston, D.
Fettercairn, grassland by track in forest near Phesdo	NO6876	2022	Elston, D.

**M185 *Euphrasia arctica* x *tetraquetra* = *E. x pratiuscula*****A Hybrid Eyebright****Local Origin** Native x Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2007 to 2007**Habitat** Grassy heathland.

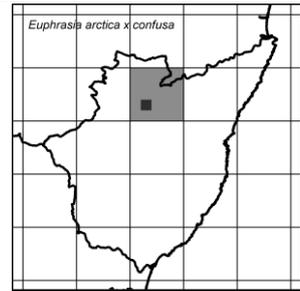
**Commentary** Short annual with characters intermediate between the parents, so leaves closely packed making stems and branches appear rather stout, the white flowers mid-size. Locally rare, only once recorded, the site possibly lost to the new harbour development. Elsewhere a very rarely recorded hybrid with fewer than ten recent records in Britain.



Location	Grid Ref	Year	Recorder / Reporter
Nigg Bay	NJ966049	2007	Welch, D.

**M186 *Euphrasia arctica x confusa*****A Hybrid Eyebright****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2008 to 2008**Habitat** Grassy heathland.

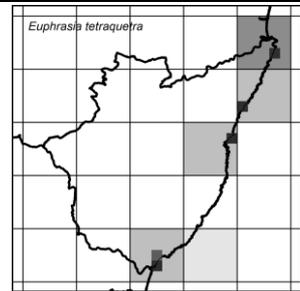
**Commentary** Slender annual with characters intermediate between the parents, so stems and branches rather flexuous, leaves not very broad and white flowers mid-size often starting shortly below node seven. Locally rare, only once recorded. Elsewhere widespread but very infrequent in the north and west, the closest recent records being from near Stanley and Enochdhu (Mid-Perthshire) and Sands of Forvie (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Tilquhillie, trackside	NO721927	2008	Welch, D.

**M187 *Euphrasia tetraquetra* (Bréb.) Arrond.****Western Eyebright****Local Origin** Native**National Status** NT, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1957 to 2021**Habitat** Short grassland by the sea.

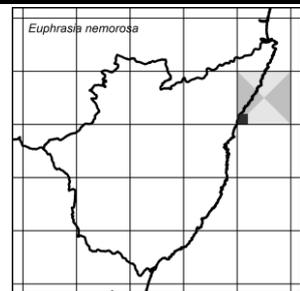
**Commentary** Short, stout annual, the stems straight, erect, branches short and stout, the leaves closely packed often in four-ranks, the flowers small, the seed capsule shorter than the calyx. Locally rare but may be under-recorded, the Newtonhill site having been rediscovered in 2021 after an interval of 24 years. Elsewhere widespread round the north and west coasts but not recorded recently from many former sites in Scotland, the closest recent records being from Kinnaber Links (Angus) and Rosehearty (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Newtonhill, rocky clifftop grassland	NO91439324	2021	Elston, D.; Peaker, A.
Garron Point, grassland by Craigeven Bay	NO886873	2001	Welch, D.
St Cyrus, short coastal grassland	NO752643	1997	Welch, D.
Johnshaven, sea shore to N	NO86	1958	Duncan, U.

**M188 *Euphrasia nemorosa* (Pers.) Wallr.****Common Eyebright****Local Origin** Native**National Status** NT, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1987 to 2004**Habitat** Grassy heathland.

**Commentary** Slender annual, the stems straight, erect, much branched below, the leaves often with acuminate teeth, the flowers small and not below node ten. Locally rare, only recorded from the coast but could be found inland. Elsewhere widespread but with variable frequency, in Scotland most frequent in the Outer Hebrides, apparently lost from much of the central highlands and lowland areas, the closest recent records being from near Pitlochry (Mid Perthshire) and St Fergus (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Mill of Muchalls, path through coastal heather	NO903910	2004	Welch, D.
Portlethen, sea shore	NO99	1958	Duncan, U.

**M189 *Euphrasia confusa* Pugsley****Confused Eyebright****Local Origin** Native**National Status** VU, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1958 to 1988**Habitat** Grassy heathland.

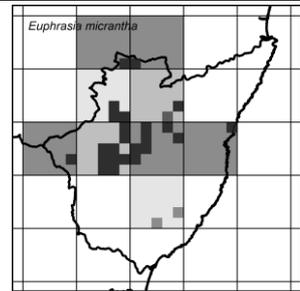
**Commentary** Slender annual, the stems flexuous, erect, much branched below with flexuous branches, the leaves with acute but not aciculate teeth, the flowers small and not below node seven. Locally with no recent records, only recorded on three occasions, the site of most recent record has since been lost. Elsewhere widespread, with variable frequency and apparently lost from many places, recently recorded from Menie Links (South Aberdeenshire) and a cluster of sites in upper Glen Esk (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Marywell, Middleton area	NO937986	1988	Birse, E.L.; Birse, E.M.
<i>Inverbervie (hectad)</i>	NO87	1954	Hepper, F.
<i>Stonehaven (hectad)</i>	NO88	1954	Hepper, F.

**M190 *Euphrasia micrantha* Rchb.****Slender Eyebright****Local Origin** Native**National Status** VU, -, -**Local Status** LO; 11+ Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/3**Earliest to Latest Record (or start and end of intervals)** 1872 to 2022**Habitat** Acid grassland and moorland.

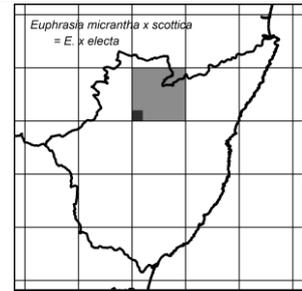
**Commentary** Slender annual, the stems erect with many pairs of branches, the leaves rather narrow, flushed purple from above, mainly opposite, the flowers small, the petals with a rather long lower lip usually flushed purple. Locally occasional but probably under-recorded, occurring in both wet and dry sites, most frequently encountered along tracks either on the open hill or forestry plantations. Elsewhere widespread and frequent in the north and west, apparently contracting in range and not recorded recently from some large, once-occupied areas: still well represented in upland Angus and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
<b>SAMPLE</b>			
Hill of Fare, by track on Craigrath	NJ68760143	2020	Elston, D.
Durris Forest, ride near Cairn-mon-earn	NO79219329	2021	Elston, D.
Durris, forest ride by TV mast	NO76508999	2020	Elston, D.
Strachan, heath on Scolty Hill	NO67429386	2020	Elston, D.; Cox, J.
Strachan, grazed acidic mire	NO678915	2016	Welch, D.
Cairn o' Mount, rough ground by Cairn	NO64928070	2022	Elston, D.
Glensaugh, Slack of Birnie, scree by path	NO66748097	2022	Elston, D.
Drumtochty Forest, Goyle Hill, near summit	NO68398201	2022	Elston, D.
Fetteresso Forest, Hill of Trusta, trackside	NO78628610	2022	Elston, D.
Stonehaven, coastal grassland	NO890884	2008	Welch, D.

**M191 *Euphrasia micrantha x scottica* = *E. x electa* F.Towns.****A Hybrid Eyebright****Local Origin** Native x Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 2022 to 2022**Habitat** Moorland flushes.

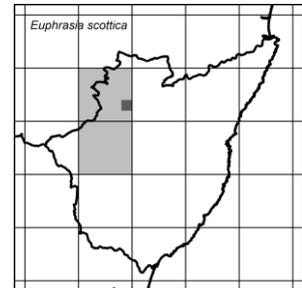
**Commentary** Small, slender annual, the stems erect with no or one pair of branches, the leaves rather narrow, flushed purple, the flowers with a rather prominent lip and arising mostly above the sixth pair of stem leaves, small, the petals mostly white with some colouration. Locally rare, only once recorded. Elsewhere a species of the north and west, widespread but infrequently recorded, the nearest recent records being from Forvie (North Aberdeenshire) and Forest or Alyth (East Perthshire).



Location	Grid Ref	Year	Recorder / Reporter
Strachan, marsh near Eslie	NO71749197	2022	Elston, D.

**M192 *Euphrasia scottica* Wettst.****Scottish Eyebright****Local Origin** Native**National Status** NT, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1988 to 1988**Habitat** Moorland flushes.

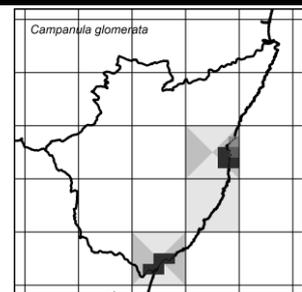
**Commentary** Small, slender annual, the stems erect with no or one pair of branches, the leaves rather narrow, flushed purple below, mainly alternate, the flowers small, the petals mostly white and with a rather short lower lip. Locally with no recent records, only once recorded. Elsewhere a northern species, widespread and frequent in upland areas but lost from many places, still well represented in hill areas of South Aberdeen and Angus.



Location	Grid Ref	Year	Recorder / Reporter
Strachan, Gellan, NW of	NO693925	1988	Birse, E.L.; Birse, E.M.

**M193 *Campanula glomerata* L.****Clustered Bellflower****Local Origin** Native**National Status** -, -, SBL**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/6/9**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Grassland on dunes and sheltered cliffs.

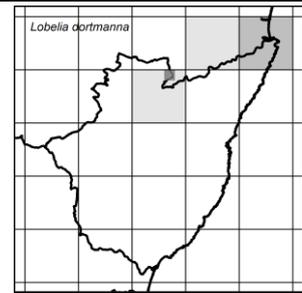
**Commentary** Downy perennial, the stems erect, the leaves short-stalked and bluntly rounded, the flowers tightly clustered, upward-pointing, purple-blue and bell-shaped. Locally rare, only recorded recently from the coast around Stonehaven and St Cyrus. Elsewhere a predominantly southern species with a local distribution, in Scotland mostly near the east coast including Arbroath Cliffs (Angus) and with no recent records of native populations further north than Stonehaven.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, grassland to landward side of main dune ridge	NO7464	2002(2022)	Gimingham, C.
St Cyrus, grassland along former railway	NO73466337	2011	Smedley, M.
Dunnottar, Castle Haven, cliff grassland	NO87908425	2020	Elston, D.
Arbuthnott [perhaps in NO77]	NO87	1820-1859	Chrystall, L.
Garron Point, coast	NO8987	1820-1859	Dickie, G.

**M194 *Lobelia dortmanna* L.****Water Lobelia****Local Origin** Native**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1983**Habitat** Acid lochs with a stony substrate.

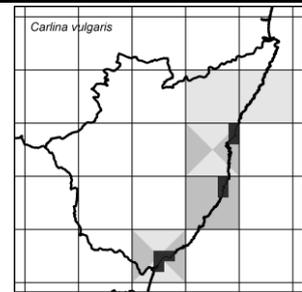
**Commentary** Perennial aquatic, the leaves broadly linear, restricted to a basal rosette, the flowers pale lilac borne on slender, erect, emergent stems. Locally with no recent records, only recorded once from Loirston Loch in which the substrate is suitable but the water has become too eutrophic, lost from Loch of Park in the mid 1800s along with several other species. Elsewhere restricted to upland areas in the north and west, in Scotland frequent north of the Highland Boundary Fault except in eastern areas where it is declining, recorded recently in Angus only from upper Glen Esk but from seven tetrads in mid and upper Deeside (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Loirston Loch	NJ90	1983	Newbold, C.; Palmer, M.; Marren, P.
Loch of Park	NJ80	1850	Boswell-Syme, J.

**M195 *Carlina vulgaris* L.****Carlina Thistle****Local Origin** Native**National Status** -, -, -**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/7/10**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Short, base-rich grassland on dunes and sunny locations on cliffs.

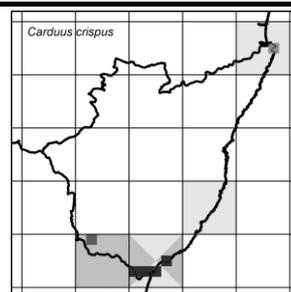
**Commentary** Short biennial, with basal rosettes of spiny leaves in the first year giving rise to erect stems with straw-coloured flowers in the second year. Locally scarce, entirely coastal, from Garron Point southwards. Elsewhere widespread but rather infrequent in the south, in Scotland almost entirely coastal and absent from the far north, recorded recently from six, no and four tetrads in Angus, South and North Aberdeenshire respectively.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus NNR	NO7463	2019	Routledge, G.
Mathers, Milton, grassy coastal cliff	NO77826586	2019	Elston, D.
Mathers, Kaim of, clifftop grassland	NO767648	2020	Elston, D.; Cox, J.
Braidon Bay, Tod Head, coastal grassland	NO870770	2014	Welch, D.
Catterline Bay	NO872783	2019	Routledge, G.
Garron Point, grassland on cliff	NO8887	2022	Elston, D., Blow, C.; Peaker, A.
Muchalls, coast [perhaps in NO99]	NO89	1880-1919	Trail, J.
Portlethen (hectad)	NO99	1889	

**M196 *Carduus crispus* L.****Wetted Thistle****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/4/3**Earliest to Latest Record (or start and end of intervals)** 1820 to 2021**Habitat** Sandy ground and rough grassland.

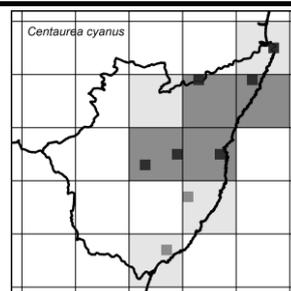
**Commentary** Tall perennial, the stems erect, spiny-winged, the leaves spiny and glabrous or nearly so underneath, the flowers in small clusters with purple corollas and simple pappus hairs. Locally scarce, currently known from the coast south of Milton of Mathers and the lower reaches of the River North Esk, declined in distribution. Elsewhere widespread and frequent in the lowlands, in Scotland coastal and infrequent north of the Highland Boundary Fault, recently recorded from several sites in Angus including upper Glen Esk and Montrose, also Aberdeen and Skene (South Aberdeenshire) and Rattray (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Morphie, by R North Esk	NO70796362Ø	2012	Green, I.
Morphie, woodland on escarpment	NO72286225Ø	2012	Green, I.
St Cyrus, by NNR car park	NO741634	2021	Elston, D.; Jones, L.; Jones, A.
Milton of Mathers, shingle by Garvock Burn	NO77536562	2019	Elston, D.
Fettercairn, Edzell Airbase (tetrad)	NO66J	1988	Noltie, H.; Pritchard, J.
Arbuthnott [perhaps in NO77]	NO87	1820-1859	Chrystall, L.
Nigg, carpark by Greyhope Bay	NJ9605	1950-1960	

**M197 *Centaurea cyanus* L.****Cornflower****Local Origin** Archaeophyte**National Status** -, -, SBL**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/5/5**Earliest to Latest Record (or start and end of intervals)** 1820 to 2021**Habitat** Disturbed ground.

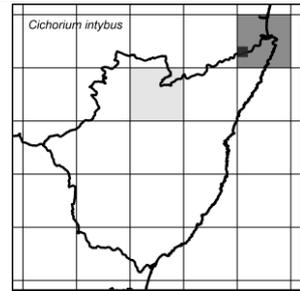
**Commentary** Tall annual, the stems erect, the leaves narrowly linear, the inflorescence large, blue, the outer florets held in a near-horizontal plane differing greatly from central florets. Locally scarce, once a widespread if uncommon weed of arable land, now often introduced in 'wild-flower' seed mixes. Elsewhere widespread but infrequent in arable areas, in Scotland mostly eastern and lost from many places, recorded recently in Angus only from Seaton Cliffs and Dundee Riverside Park whilst from South Aberdeenshire only from Park Quarry and Haughton Country Park.



Location	Grid Ref	Year	Recorder / Reporter
Maryculter, Tilbouries	NO83759830Ø	2010	Green, I.
Torry, disturbed bank at allotments carpark	NJ960055	2008	Welch, D.
Marywell, Turnamiddle, reseeded grassland	NO92389960	2004	Waddell, J.
Stonehaven, seafront	NO8785	2013	Meek, E.
Glenbervie, restored arable after pipeline laid	NO780843	2012	Welch, D.
Glenbervie, Chapelton, field margin	NO73418278	2021	Blow, C.; Peaker, A.
Banchory [perhaps in NO69]	NO79	1820-1859	Brichan, J.
Nigg Parish	NJ90	1880-1919	Trail, J.
Arbuthnott [perhaps in NO77]	NO8077	1820-1859	Chrystall, L.
Johnshaven, Middle Knox Farm	NO7767	1952	Graham, R.

**M198 *Cichorium intybus* L.****Chicory****Local Origin** Archaeophyte**National Status** -, -, SBL**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2007**Habitat** Rough places, field margins.

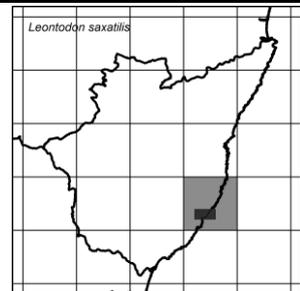
**Commentary** Tall perennial, the basal leaves large, deeply but irregularly lobed, the stems erect, branching, with more regularly shaped leaves, the inflorescence a tower of widely spaced flower-heads with spreading, blue ray-florets. Locally rare, once a field weed, recently recorded only once, as a garden escape. Elsewhere widespread and frequent in lowland areas of the south, in Scotland mostly coastal, eastern, and much diminished, recorded recently from six tetrads in Angus and five in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Banchory-Devenick, Banchory House, escaped to policies	NJ915023	2007	Welch, D.
Banchory, in fields [perhaps in NO69]	NO79	1820-1859	Dickie, G.

**M199 *Leontodon saxatilis* Lam.****Lesser Hawkbit****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/2/2**Earliest to Latest Record (or start and end of intervals)** 2001 to 2021**Habitat** Short, damp, basic grassland at the coast.

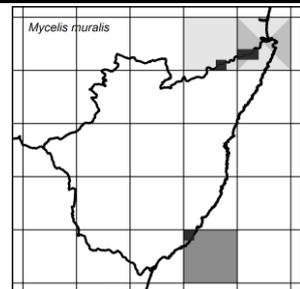
**Commentary** Short perennial, the leaves in a basal rosette, the stems erect, unbranched and bearing a single yellow flower-head, the (outer) ray-florets having achenes without obvious hairs. Locally rare, first discovered in 2001. Elsewhere a lowland plant, widespread and generally frequent south of the Scottish border, in Scotland local and largely coastal, the closest recent records being from near Fraserburgh (North Aberdeenshire) and Lower Largo (Fife).



Location	Grid Ref	Year	Recorder / Reporter
Inverbervie, marsh in coastal grassland	NO83897256	2005(2021)	Welch, D.

**M200 *Mycelis muralis* (L.) Dumort.****Wall Lettuce****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/4**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Roots into small gaps in the mortar of stonework.

**Commentary** Perennial often suffused with red-purple colouring, the leaves clasping, deeply-divided and angular-outlined with a large terminal lobe, the stems erect, the inflorescence angularly branched with small, widely spaced, yellow flower-heads. Locally scarce, mostly close to old buildings. Elsewhere widespread and generally frequent but in Scotland strongly clustered, with clusters centred on the Tay Valley, Inverness, Edinburgh and Glasgow, recently recorded in Angus from near Edzell, Monifieth and Dundee, whilst in South Aberdeenshire from Bucksburn, Milltimber and near Logie Coldstone.



Location	Grid Ref	Year	Recorder / Reporter
Maryculter, garden wall at Kintewline	NJ870008	2007	Welch, D.
Banchory-Devenick, roadside wall	NJ92160271	2021	Elston, D.
Banchory-Devenick, foot of kirkyard wall	NJ906023	2022	Welch, D.
Haughs of Benholm	NO81146833Ø	2011	Green, I.

**M201 *Filago germanica* L., non Huds.****Common Cudweed****Local Origin** Native**National Status** NT, -, SBL**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2021**Habitat** Bare ground at the coast.

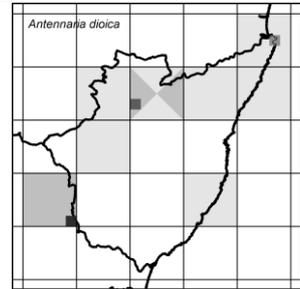
**Commentary** Small, grey-hairy annual, the stems erect and enclosed by small, linear leaves, the inflorescence branched, with large terminal clusters of many small flower heads. Locally rare, only recorded from two sites, long-known from and perhaps now absent from St Cyrus but discovered in 2011 near Inverbervie. Elsewhere widespread and frequent in the south east, much less frequent north of Yorkshire, much declined in Scotland and now rarely far from the east coast, recently recorded from a cluster of sites in Moray but in Angus also occurring inland near Forfar and Blairgowrie.



Location	Grid Ref	Year	Recorder / Reporter
Inverbervie, Craig David, steep sheep-grazed slope	NO84157318	2021	Elston, D.
St Cyrus, screes of sand on sea cliff	NO76	1953	Robson, A.

**M202 *Antennaria dioica* (L.) Gaertn.****Mountain Everlasting****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1817 to 2019**Habitat** Peaty and rocky places.

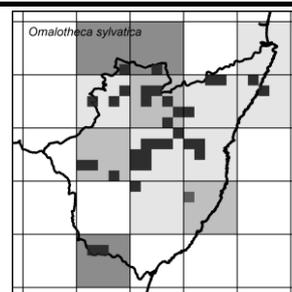
**Commentary** Shortly hairy, mat-forming perennial, the stems creeping, the basal leaves small, grey-green above, white below, the inflorescence on an erect stem comprising a small cluster of pale pink or whitish flower-heads. Locally rare, once widespread but much declined, recently recorded only from by the River North Esk, the few plants there presumably derived from populations further upstream. Elsewhere widely distributed and frequent in the north and west including upland Angus and South Aberdeenshire, lost from many lowland sites but recorded recently from Sands of Forvie (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, wooded gorge of R North Esk, riverside rocks	NO59467166	2019	Elston, D.
Tilquhillie, Craig of Affrusk	NO7192	1973	
Arbuthnott [perhaps in NO77], heaths, natural pastures	NO87	1820-1859	Dickie, G.
Nigg, at Girdle Ness Lighthouse	NJ9705	1820-1859	Dickie, G.
Nigg Parish, dry moors	NJ90	1880-1919	Trail, J.
Banchory-Devenick Parish [perhaps in NJ90]	NO99	1880-1919	Trail, J.
Maryculter Parish [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Banchory [perhaps in NO69], heaths, natural pastures	NO79	1820-1859	Dickie, G.
Strachan to Inchmarlo (hectad)	NO69	1957	Sommerville, A.
Bridge of Dye (hectad)	NO68	1950-1960	

**M203 *Omalotheca sylvatica* (L.) Sch.Bip. & F.W.Schultz****Heath Cudweed****Local Origin** Native**National Status** EN, -, SBL**Local Status** LO; 11+ Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 10/23/23**Earliest to Latest Record (or start and end of intervals)** 1872 to 2023**Habitat** Disturbed ground, particularly tracksides.

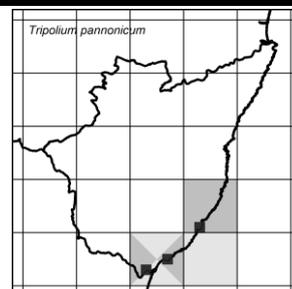
**Commentary** Shortly hairy perennial, the stems erect, the leaves long, thin and grey, both basal and up the stem, the inflorescence an elongating spike of small, dark grey flower-heads. Locally widespread and increasing due to colonisation of commercial forestry tracks. Elsewhere widespread but rarely frequent and becoming lost from many areas, most frequent in north east Scotland and recorded recently from 11 and 68 tetrads in Angus and South Aberdeenshire respectively.



Location	Grid Ref	Year	Recorder / Reporter
<b>SAMPLE</b>			
Glen Dye	NO62048345	2023	Elston, D.
Blackhall Forest, on track	NO63899526	2012	Green, I.
Tilquhillie, by track in Balbridie Plantation	NO736952	2008	Welch, D.
Crathes, sandpit	NO74729627	2009	Welch, D.
Durris, Bruntyairds Wood	NO81229362	2014	Green, I.
Rickarton, W of, by track in forest	NO78868930	2020	Elston, D.
Fetteresso Forest, track below Monluth Hill	NO73218676	2021	Elston, D.
Drumtochty Forest, hard standing near Mid Hill	NO71458492	2022	Elston, D.
Maryculter, Templars' Park, in old sand pit	NO850999	2010	Green, I.
Marywell, abandoned cultivation now rabbit-grazed	NO93449944	2004	Waddell, J.
Inglismaldie	NO65546706	2010	Averis, A.

**M204 *Tripolium pannonicum* (Jacq.) Dobrocz.****Sea Aster****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/3**Earliest to Latest Record (or start and end of intervals)** 1820 to 2020**Habitat** Wet, silty ground by the coast.

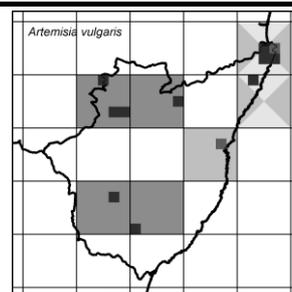
**Commentary** Tall biennial, the stems erect, the leaves shiny, succulent, the inflorescence a rather open collection of flower-heads each with blue-grey ray-florets surrounding a yellow core. Locally rare from St Cyrus to Gourdon. Elsewhere widespread and generally frequent round the coastline including from Dunbar (East Lothian) to Gourdon, but absent from some stretches such as the section from Gourdon to Findochty (Moray).



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, mouth of R North Esk	NO73856257Ø	2010(2020)	Haynes, T.; Haynes, R.
Mathers, saltmarsh at Milton Ness	NO77116479	2014(2020)	Smedley, M.
Gourdon, shore	NO82327033	2020	Elston, D.; Cox, J.
Benholm, coast	NO86	1820-1859	Dickie, G.

**M205 *Artemisia vulgaris* L.****Mugwort****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LS; 9 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/6/6**Earliest to Latest Record (or start and end of intervals)** 1880 to 2023**Habitat** Rough ground and waste places.

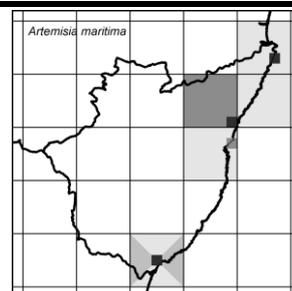
**Commentary** Tall, densely tufted perennial, the leaves grey-hairy, twice pinnate with toothed laminae, the stems erect, bearing large, contiguous clusters of small flower-heads that are pale but pink-tipped. Locally scarce, not recorded until 1988 and often associated with human activity. Elsewhere widespread and frequent in lowland areas, in Scotland mostly coastal north of the Central Belt and decreasing in many areas, recorded recently in 22 tetrads in Angus and nine in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, roadside by Hunter's Hill	NO66587653	2021	Elston, D.
Laurencekirk, station yard	NO717718	2008	Welch, D.
Marywell, spoil next to lake	NO932995	2004	Welch, D.
Cove, by clifftop footpath	NJ96080211	2023	Elston, D.
Torry, by harbour side of Greyhope Road	NJ95590542	2020	Elston, D.
Kincorth Hill	NJ94130277Ø	2019	Loizou, T.
Glassel, Pittenkerrie, rough ground by farm buildings	NO65839852	2023	Elston, D.
Durris, trackside at Mounthamock	NO793945	2009	Welch, D.
Strachan, roadside	NO679924	2003	Welch, D.
Stonehaven, railway yard	NO863862	1995	Welch, D.
Nigg Bay, waste ground	NJ9604	1993	Welch, D.

**M206 *Artemisia maritima* L.****Sea Wormwood****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2021**Habitat** On rocks exposed to sea spray.

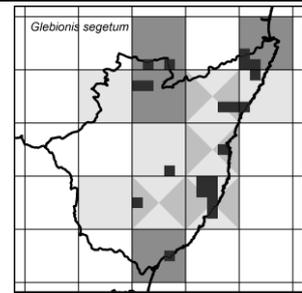
**Commentary** Lavender-grey, aromatic, colony-forming perennial, the leaves twice-pinnate with linear laminae, the stems erect and bearing many tiny flower-heads. Locally rare, forms persistent colonies but a poor coloniser with much apparently suitable habitat unoccupied. Elsewhere widespread but rather local along soft as well as hard coasts, absent from most of west Scotland and reaching its northern limit at Whinnyfold (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus NNR, sea stack	NO75926487	2021	Elston, D.; Jones, L.; Peaker, A.
Muchalls, rocky tidal island	NO89939081	2020	Elston, D.
Altens, coastal rocks N of Altens Haven	NJ96470248	2021	Elston, D.
Stonehaven, at Garron Point	NO88Y	1820-1859	Sutherland

**M207 *Glebionis segetum* (L.) Fourr.****Corn Marigold****Local Origin** Archaeophyte**National Status** VU, -, -**Local Status** LO; 11+ Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 10/18/21**Earliest to Latest Record (or start and end of intervals)** 1950 to 2023**Habitat** Arable fields.

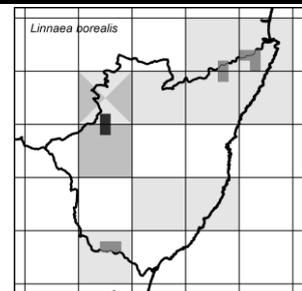
**Commentary** Tall annual, the stems erect, the leaves toothed or wavy-edged, the flower-heads comprising a horizontal disk of bright yellow ray florets encircling a yellow dome of inner florets. Locally widespread in lowland areas and faring comparatively well. Elsewhere widespread and rather frequent in the lowlands, in Scotland north of the Central Belt mostly coastal and declining markedly in many areas, the 19 tetrads with recent records in Kincardineshire contrasting markedly with six each for Angus and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
<b>SAMPLE</b>			
Hirn, edge of arable field	NJ728006	2009	Welch, D.
Crathes, The Neuk, edge of barley crop	NO733978	2016	Welch, D.
Newtonhill, field corner	NO91139289	2018	Peaker, A.
Netherley, Cookney, field margin	NO87779308	2023	Elston, D.
Glenbervie, stubble field	NO779807	2004	Welch, D.
Barras, wheat field	NO831783	2010	Welch, D.
Auchenblae, S of, turnip field	NO712752	2009	Welch, D.
Roadside of Kinneff, arable field	NO845766	2010	Marriott, R.
Kinneff, Castle Hill, arable field	NO848739	2011	Green, I.
St Cyrus, disused small garden at Tangleha	NO770649	2020	Welch, D.

**M208 *Linnaea borealis* L.****Twinflower****Local Origin** Native**National Status** -, NS, SBL**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1795 to 2023**Habitat** Heathy pine woods and heathland from which the trees have been lost.

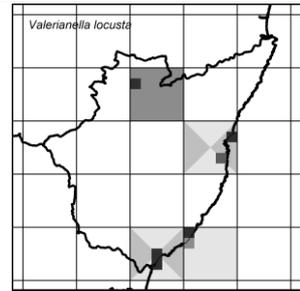
**Commentary** Creeping perennial, the stems red, hairy, the leaves nearly orbicular in opposite pairs, the flowers on slender, erect stems are in pendant pairs with pinkish-white corollas. Locally rare, now known only from the woods south of Strachan where it is plausibly native, once much more widespread as a result of accidental introductions from tree nurseries to Scots Pine plantations, Prof James Beattie's 1795 record from Inglismaldie marking the discovery of this species in the British Isles. Elsewhere a northern species with a very restricted distribution, much of which is in Speyside (Moray) and Deeside (South Aberdeenshire), declining markedly away from its core range.



Location	Grid Ref	Year	Recorder / Reporter
<b>Strachan, Greendams, Scots pine plantation</b>	<b>NO64489080</b>	<b>2023</b>	<b>Marquiss, M.; Marriott, R.</b>
Inglismaldie, pinewoods, both sides Fettercairn road	NO66	1830-1848	Gardiner, W.
Balmakewan, fir plantation, half mile S of Free Church	NO6666	1820-1859	Simpson
Arbuthnott [perhaps in NO77]	NO87	1820-1859	Carmichael
Auchenblae, woods in Parish	NO77	1835-1845	New Statistical Account
Banchory-Devenick, Blue Hill	NJ9200	1917	
Banchory-Devenick, Tollohill wood	NJ9202	1838	Thomson, A.
Kingcausie	NO8699	1860	Boswell-Syme, J.
Durris, Sunnyside Wood	NO7594	1932	Braid, K.
Tilquhillie	NO79	1820-1859	Adam, F.

**M209 *Valerianella locusta* (L.) Laterr.****Common Cornsalad****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/5/5**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Dry bare or sandy ground.

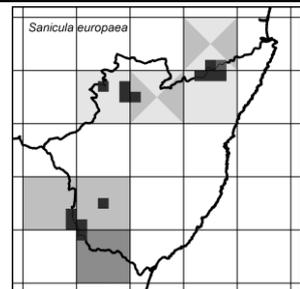
**Commentary** Small annual, the leaves mostly in a basal rosette, the stems ascending, the flowers small, white, in tightly-packed terminal clusters. Locally scarce, almost entirely coastal. Elsewhere a lowland species, widespread and quite frequent in the south, in Scotland coastal, mainly eastern and lost from many places, in Angus recorded recently from five tetrads between Montrose and Arbroath but from zero and two in South Aberdeenshire and North Aberdeenshire respectively.



Location	Grid Ref	Year	Recorder / Reporter
Banchory, edge of hard standing	NO701962	2013	Welch, D.
Garron Point, bare earth at.	NO891878	2001	Welch, D.
Benholm, coastal grassland	NO813688	2009	Welch, D.
St Cyrus NNR, dry ground at base of cliffs	NO75626481	2021	Elston, D.
St Cyrus, disused railway line	NO74396397	2022	Elston, D.
Dunnottar, bare places below Old Red Sandstone outcrops	NO879837	1995	Welch, D.
Johnshaven, at Brotherton	NO8067	1820-1859	Stephen
Den Finella	NO76	1820-1859	Stephen

**M210 *Sanicula europaea* L.****Sanicle****Local Origin** Native**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 6/9/8**Earliest to Latest Record (or start and end of intervals)** 1817 to 2023**Habitat** Hummus-rich soils in old woodland.

**Commentary** Short perennial, the leaves basal, glossy, dark green and palmately lobed, the stems erect, the inflorescence twice branched, comprising multiple tight clusters of small white flowers. Locally scarce, a good indicator of ancient woodland. Elsewhere widespread and generally frequent, avoiding high ground or peaty soils, recorded recently from nine tetrads in Angus and ten in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Kingcausie, Corbie Den	NO86049967	2020	Elston, D.
Maryculter, den at Tilbouries	NO836984	2012	Gilliland, B.
Banchory, plantation woodland	NO691962	2014	Welch, D.
Banchory, stream bank under woodland strip	NO70599529	2023	Brendish, J.
Inchmarlo, Glencommon, deciduous woodland	NO65989691	2023	Elston, D.
Fettercairn, The Burn, on rocks by River North Esk	NO59418213	2023	Brendish, J.
Fettercairn, Mains of Fasque, woodland	NO655749	2022	Elston, D.
Kingcausie Island	NJ8600	1980	Green, J.

**M211 *Helosciadium nodiflorum* (L.) W.D.J.Koch**

Fool's-water-cress

Local Origin Native

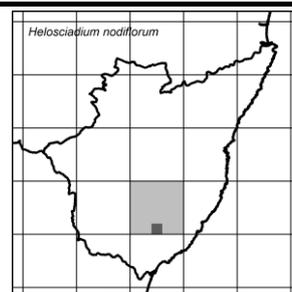
National Status -, -, -

Local Status NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0

Earliest to Latest Record (or start and end of intervals) 1996 to 1996

Habitat Marshes.

**Commentary** Perennial, the leaves large, sheathing at the base, once-pinnately divided, the lower leaves with a somewhat erect midrib, the main stems robust, pedicels below the first division of the twice-divided umbels being very short, the flowers white. Locally with no recent records, only once recorded by a hill-top loch. Elsewhere widespread and frequent in lowland areas of the south, very local and mostly western in Scotland, the closest recent records being from Morton Lochs (Fife) and near Dyce and Balmedie (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Garvock, marsh by St James' Lochs	NO743711	1996	Francis, I.

**M212 *Helosciadium inundatum* (L.) W.D.J.Koch**

Lesser Marshwort

Local Origin Native

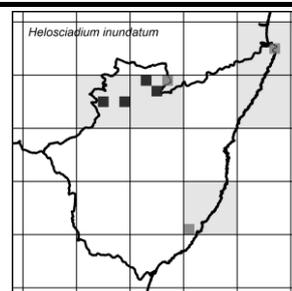
National Status -, -, -

Local Status LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/3

Earliest to Latest Record (or start and end of intervals) 1820 to 2020

Habitat Damp muddy places or shallow ponds.

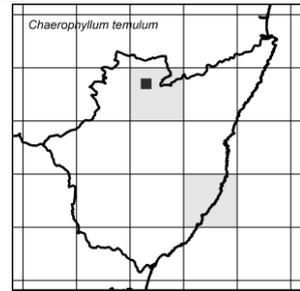
**Commentary** Low-growing, mat-forming perennial, the stems creeping and rooting at the nodes, the leaves finely divided and much more conspicuous than the tiny white flowers. Locally scarce, all recent records are from close to Banchory, once much more widespread. Elsewhere widespread but infrequent, in Scotland mostly lowland and coastal, apparently lost from many former sites in north-east Scotland, the nearest recently are from Bishop's Loch (South Aberdeenshire) and from four tetrads in Angus including Glen Esk near Tarfside.



Location	Grid Ref	Year	Recorder / Reporter
Crathes, two dried-up ponds in sandpit	NO74669623	2020	Elston, D.
Crathes, Bardshillock Wood, ditch from wet heath	NO722981	2015	Welch, D.
Auchattie, pool in forest	NO687946	2002	Welch, D.
Blackhall Forest, pool in gravel pit	NO645958	2003	Elston, D.
Benholm, Annie's Dam	NO8071	1903	Somerville, A.
Nigg Bay, marsh above	NJ9604	1820-1859	Dickie, G.
Banchory-Devenick Parish [perhaps in NJ90]	NO99	1880-1919	Trail, J.
Loch of Park	NO7698	1848	

**M213 *Chaerophyllum temulum* L.****Rough Chervil****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Wood borders.

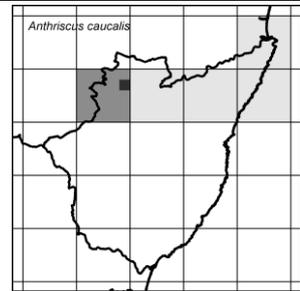
**Commentary** Medium-tall biennial, the stems erect, hairy, purple, the leaves triangular, twice pinnate with distinctly flat laminae, the inflorescence comprising twice-divided umbels with many bracteoles below the upper point of division, the flowers small and white. Locally rare but abundant at its current location. Elsewhere generally widespread and frequent in lowland areas except in the north and west of Scotland where it is local, the closest recent records are from Dundee (Angus), Laithers and Rattray (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Crathes Castle, woodland by car-park	NO735967	2022	Welch, D.
Inverbervie (hectad)	NO87	1950-1960	

**M214 *Anthriscus caucalis* M.Bieb.****Bur Chervil****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2006**Habitat** Disturbed ground.

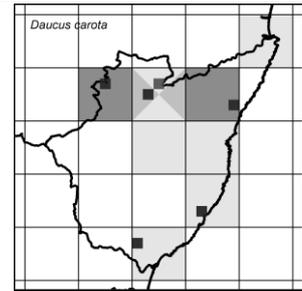
**Commentary** Medium-tall annual, the leaves twice-pinnate with delicate laminae, the stems erect, the inflorescence in twice-divided umbels with small white flowers giving rise to seeds that are densely covered in hooked bristles. Locally rare, one recent record, apparently not establishing, formerly much more widespread. Elsewhere widespread, frequent in East Anglia, otherwise infrequent or local, in Scotland only near the east coast, the closest recent records being from near Arbroath (Angus) and Whitehills (Banffshire).



Location	Grid Ref	Year	Recorder / Reporter
Banchory, W of golf course	NO68089614Ø	2006	Green, I.
Maryculter Parish [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Banchory-Devenick Parish [perhaps in NJ90]	NO99	1880-1919	Trail, J.
Banchory [perhaps in NO69]	NO79	1820-1859	Adam, F.
Nigg Parish	NJ90	1880-1919	Trail, J.
Maryculter (hectad)	NO89	1900-1930	

**M215 *Daucus carota* L.****A Carrot****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/4/4**Earliest to Latest Record (or start and end of intervals)** 1820 to 2013**Habitat** Grassland and disturbed ground.

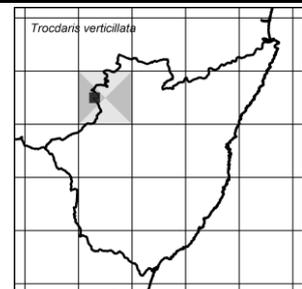
**Commentary** Biennial, the leaves basal, twice- or thrice-pinnate with linear ultimate segments, the flowering stems erect, supporting a twice-divided umbel of white flowers with bracts that are large, pinnately divided and particularly prominent when the umbel contracts after flowering. Locally rare as a native, recorded from semi-natural grassland as well as being derived from seed mixes. Elsewhere widespread and frequent in lowland areas, mostly coastal in Scotland north of the Central Belt, recorded recently from five tetrads in Angus and three in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Inverbervie	NO83387271Ø	2010	Green, I.
Tilquhillie, Knappach	NO72859534Ø	2006	Green, I.
Woodend, Cairnton, riverside grassland	NO644963	2013	Welch, D.
<i>St Cyrus, fields</i>	NO76	1820-1859	Stephen
<i>Arbuthnott Parish [perhaps in NO77]</i>	NO87	1820-1859	Chrystall, L.
<i>Glenbervie (hectad)</i>	NO78	1950-1960	
<i>Stonehaven (hectad)</i>	NO88	1950-1960	
<i>Nigg Parish</i>	NJ90	1880-1919	Trail, J.
<b>INTRODUCED / PLANTED</b>			
Marykirk, wide roadside bank	NO70566694	2022	Welch, D.
Kincorth, amenity grass	NJ927029	2019	Loizou, T.
Crathes, newly sown grassland	NO741961	1997	Watson, A.

**M216 *Trocdaris verticillata* (L.) Raf.****Whorled Caraway****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1957 to 2002**Habitat** Flushed marsh.

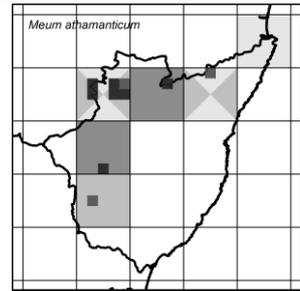
**Commentary** Biennial, the leaves with linear leaf segments in whorls, fragrant when crushed, the stems erect and rather slender, the inflorescence a twice-divided umbel with small, white-petalled flowers. Locally rare, its sole site comprising an offshoot from a substantial population in South Aberdeenshire, collectively forming an outlier from its main distribution. Elsewhere very local in western Scotland and Wales, in eastern Scotland known from few other sites, the closest being Burreldale Moss (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Blackhall Forest, Shooting Greens, roadside ditch	NO632944	2002	Welch, D.

**M217 *Meum athamanticum* Jacq.****Spiguel****Local Origin** Native**National Status** NT, NS, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/6/6**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Unimproved, uncut grassland.

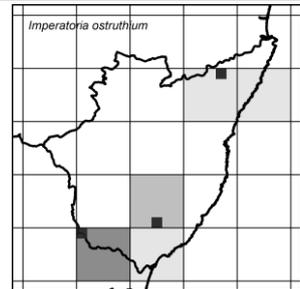
**Commentary** Tufted, aromatic perennial, the leaves thrice-pinnate with almost skeletal ultimate segments, the small white flowers held on erect, twice-divided stems. Locally scarce, all records bar one from the River Dee corridor, where it is perhaps rather mobile. Elsewhere a local species almost confined to hill upland areas of south-west and central Scotland with a stronghold in the eastern Grampians including upland Deeside (South Aberdeenshire) and Glen Esk (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Woodend, grassland by R Dee	NO632959	2014	Welch, D.
Blackhall, Glenbogle, by R Dee	NO66299599Ø	2012	Green, I.
Banchory, by R Dee beside Golf Course	NO68789564	2010	Welch, D.
Durris, riverside grassland	NO771967	2013(2020)	Moss, R.
Cairn o' Mount, road verge near summit	NO64938077	2022	Elston, D.
Banchory, by R Dee at Laird's Cast	NO678962	1977	Welch, D.
Maryculter, by R Dee at Templar's Park	NO8499	1980	Marren, P.
Fettercairn, birchwood at Mains of Balnakettle	NO625750	1985	Watson, A.
Banchory-Devenick Parish [perhaps in NJ80]	NJ90	1880-1919	Trail, J.

**M218 *Imperatoria ostruthium* L.****Masterwort****Local Origin** Archaeophyte**National Status** NT, NS, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/4**Earliest to Latest Record (or start and end of intervals)** 1880 to 2020**Habitat** Wooded dens.

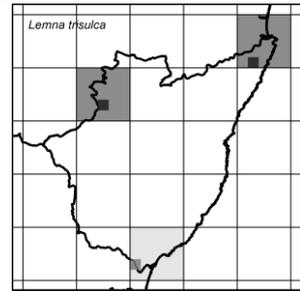
**Commentary** Perennial forming small patches, the leaves basal, twice-ternate or nearly so, with rather rounded leaflets, the flowering stems if present erect, bearing twice-divided umbels of white flowers. Locally rare, seemingly restricted to old habitats despite being an archaeophyte. Elsewhere a local species of northern, often in upland, areas with the greatest concentration of recent records being in north-east Scotland.



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, woodland by R North Esk opposite Edzell	NO60296915Ø	2010	Green, I.
Garvock, den by old kirk	NO74477051	2020	Elston, D.
Kingcausie, Corbie Den, west bank of burn	NO86399847	2012	Welch, D.
St Cyrus (hectad)	NO76	1950-1960	
Banchory-Devenick Parish [perhaps in NJ90]	NO99	1880-1919	Trail, J.

**M219 *Lemna trisulca* L.****Ivy-leaved Duckweed****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2021**Habitat** Nutrient rich freshwater.

**Commentary** Tiny, floating aquatic comprising several rather translucent leaves, each with its own root, connected by short, thin branches. Locally rare, recently rediscovered after a gap of over 100 years. Elsewhere widespread and generally frequent in lowland areas south of the Highland Boundary Fault, very local further north, the closest recent records are from Alford (South Aberdeenshire) and Balgavies Loch (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Banchory-Devenick, excavated pond near Blue Hill	NJ921003	2019	Elston, D.
Loirston Loch	NJ937010	2021	Green, I.
Strachan, pond	NO65839218	2021	Begbie, R.
Morphie, mill dam	NO7162	1820-1859	Croall, A.

**M220 *Alisma plantago-aquatica* L.****Water-plantain****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/5/5**Earliest to Latest Record (or start and end of intervals)** 1820 to 2012**Habitat** Pond margins and ditches.

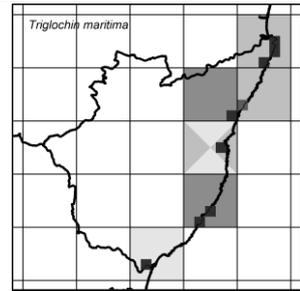
**Commentary** Aquatic perennial, the leaves all basal with erect long stalks and simple blades, the flowering stems erect, the inflorescence diffuse, repeatedly branched, the flowers each with three white petals. Locally rare as a native, lost from many former sites and recently introduced at some of its current sites. Elsewhere widespread and frequent in lowland areas south of the Highland Boundary Fault, very local further north, recently recorded from 16 tetrads in Angus and seven in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Maryculter, Templars	NJ85190004Ø	2004	Waddell, J.
Fettercairn, Edzell Airbase, Cleary Wood	NO63136783Ø	2012	Green, I.
Banchory [perhaps in NO79]	NO69	1820-1859	Brichan, J.
Maryculter Parish [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Banchory-Devenick Parish [perhaps in NJ90]	NO99	1880-1919	Trail, J.
Arbuthnott Parish [perhaps in NO77]	NO87	1820-1859	Chrystall, L.
St Cyrus, mill dam below kirk	NO7564	1820-1859	Stephen
<b>INTRODUCED / PLANTED</b>			
Crathes Castle, lakeside	NO740966	2013	Emes, C.; Watt, J.
Inchmarlo, Glencommon, farm pond	NO66619718	2023	Elston, D.
Kincorth Hill, small pond	NJ94360282Ø	2019	Loizou, T.
Nigg, St Fittick's Community Park, pool created c. 2012	NJ961047	2017	Welch, D.
Glenbervie, eutrophic pond W of Mains of Mondyne	NO763793	2023	Elston, D.

**M221 *Triglochin maritima* L.****Sea Arrowgrass****Local Origin** Native**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/7/7**Earliest to Latest Record (or start and end of intervals)** 1930 to 2021**Habitat** Wet soil usually within reach of sea-spray.

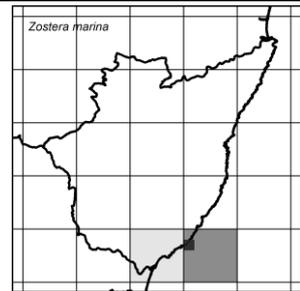
**Commentary** Perennial, the leaves basal, long and linear with the top surface strongly incurved, the stems rather stout, bearing a narrowly cylindrical inflorescence comprising short-stalked flowers lacking obvious petals. Locally scarce, not recorded until 1930 but now found in suitable habitat along the entire coastline. Elsewhere widespread and frequent on all coasts having increased nationally in line with the local trends.



Location	Grid Ref	Year	Recorder / Reporter
Cove Bay, coast	NJ95620064Ø	2019	Loizou, T.
Altens, coast	NJ96480248Ø	2019	Loizou, T.
Mill of Muchalls, shore	NO8990	2006	Welch, D.
Dunnottar, Castle Haven, damp turf by tideline	NO87998429	2019	Elston, D.
Gourdon, saltmarsh to S (and N) of	NO82327047	2021	Elston, D.
Inverbervie, Kinghornie	NO84307283Ø	2011	Green, I.
St Cyrus NNR, margins of muddy tidal inlet	NO73856262	2020	Elston, D.
Newtonhill, shore	NO9193	1997	Welch, D.

**M222 *Zostera marina* L.****Eelgrass****Local Origin** Native**National Status** NT, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1880 to 2005**Habitat** Silt and rock pools in the tidal zone.

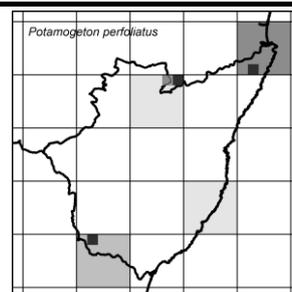
**Commentary** Marine stand-forming perennial, the stems weak, the leaves flat, linear, floating or submerged, the inflorescence inconspicuous and partly ensheathed. Locally rare, only twice recorded, most recently comprising plants likely representing a short-lived expansion of the population in Montrose Basin (Angus). Elsewhere widespread but infrequent round the coast, the closest recent record to the north is from near Burghead (Moray).



Location	Grid Ref	Year	Recorder / Reporter
Johnshaven, rocky shore	NO802671	2005	Scanlon, C.
St Cyrus, estuary mouth	NO76	1880-1919	Trail, J.

**M223 *Potamogeton perfoliatus* L.****Perfoliate Pondweed****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Ponds and lochs.

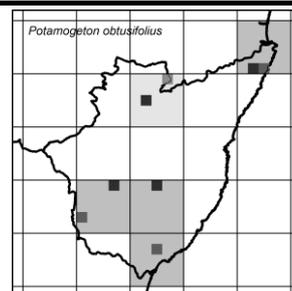
**Commentary** Perennial rooted aquatic with submerged leaves broadly clasping the stem and no floating leaves. Locally rare, only recorded recently from three sites. Elsewhere widespread but infrequent from a wide range of types of fresh water bodies, as with many other pondweed species lost from many former sites, the closest recent records are from Loch of Kinnordy (Angus) and several tetrads round Aboyne, also Skene and along the River Don (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Loirston Loch	NJ939009	2012	Welch, D.
Durris, artificial loch by Keith's Tower	NO79889826	2022	Elston, D.
Fettercairn, Edzell Airbase	NO625694	2004	Welch, D.
Loch of Park	NO7698	1848	Mactier, A.
Arbuthnott Parish [perhaps in NO77]	NO87	1820-1859	Chrystall, L.

**M224 *Potamogeton obtusifolius* Mert. & W.D.J.Koch****Blunt-leaved Pondweed****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/4/4**Earliest to Latest Record (or start and end of intervals)** 1820 to 2011**Habitat** Ponds and lochs in the lowlands.

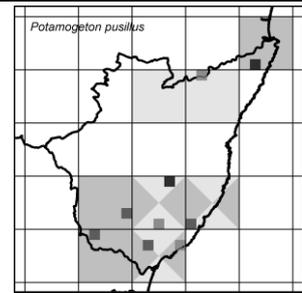
**Commentary** Perennial rooted aquatic with no surface-floating leaves, the submerged leaves parallel-sided, relatively broad and often occurring in rather dense, branched aggregations. Locally scarce, not recorded from any of its current sites prior to 1978, former sites from which it has not been recorded recently are now unsuitable. Elsewhere widespread but rather local in lowland areas, apparently absent from many former sites, recorded recently from 11 tetrads in Angus and nine in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Tilquhillie, Knappach	NO72599514Ø	2006	Green, I.
Loirston Loch	NJ938012	2001	Welch, D.
Glensaugh, Loch Saugh	NO676790	2011	Welch, D.
Auchenblae, Monboddo, lake	NO745785	2000	Welch, D.
Fettercairn, Hallhill Loch	NO602725	1978	Gerrie, B.
St Cyrus, Lauriston Castle	NO759667	1978	Gerrie, B.
Loch of Park	NO7698	1874	Sim, T.

**M225 *Potamogeton pusillus* L.****Lesser Pondweed****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2001**Habitat** Lowland still waters.

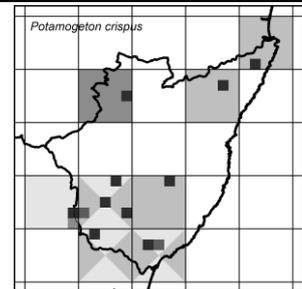
**Commentary** Perennial rooted aquatic with no surface-floating leaves, the submerged leaves small, parallel-sided with a sub-marginal vein and tubular stipules. Locally rare, apparently lost from many of its former sites so either much reduced or being overlooked. Elsewhere widespread but rather local in lowland areas, apparently lost from many former sites, recorded recently from seven tetrads in Angus but none in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Auchenblae, Castleton Loch	NO760788	2000	Welch, D.
Loirston Loch	NJ938012	2001	Welch, D.
Fettercairn, loch at Edzell Airbase	NO626696	1978	Gerrie, B.
Fettercairn, dam at Haughhead	NO683727	1978	Gerrie, B.
Benholm Castle, pool	NO805704	1978	Gerrie, B.
St Cyrus, Ecclesgreig, pool at Home Farm	NO732660	1978	Gerrie, B.
<i>Johnshaven, Brotherton, mill dam</i>	<i>NO7967</i>	<i>1820-1859</i>	<i>Stephen</i>
<i>Garvock, Sooty Wells near kirk</i>	<i>NO77K</i>	<i>1820-1859</i>	<i>Stephen</i>
<i>Maryculter, below 9th milestone</i>	<i>NO8398</i>	<i>1820-1859</i>	<i>Stephen</i>
<i>Banchory [perhaps in NO69]</i>	<i>NO79</i>	<i>1820-1859</i>	<i>Brichan, J.</i>

**M226 *Potamogeton crispus* L.****Curled Pondweed****Local Origin** Native**National Status** -, -, -**Local Status** LS; 10 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 8/10/11**Earliest to Latest Record (or start and end of intervals)** 1905 to 2022**Habitat** Ponds and lochs.

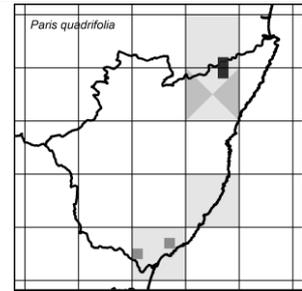
**Commentary** Perennial rooted aquatic with no surface-floating leaves, the submerged leaves with wavy edges and minutely toothed. Locally scarce, apparently lost from some former sites, currently rather widespread and close to losing its place in the Register. Elsewhere widespread and generally frequent in lowland areas, in Scotland absent from much of the north-west mainland, recorded recently from 13 tetrads in Angus and 16 in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Banchory, W of, in R Dee	NO6895	2006	Green, I.; Duncan, M.; Dixon, N.
Maryculter, fishing loch in old quarry at Berry Top	NO865963	2014	Welch, D.
Loirston Loch	NJ938011	2009	Welch, D.
Auchenblae, Castleton Loch	NO760788	2000	Welch, D.
Glensaugh, in Loch Saugh	NO67467857	2022	Elston, D.
Fettercairn, Fasque, shallow stream and loch	NO64287454	2019	Elston, D.
Fettercairn, Haughhead lochan	NO683727	2008	Welch, D.
Fettercairn, pond near The Burn	NO596723	2018	Elston, D.
Fettercairn, loch at Edzell Airbase	NO625694	2004	Welch, D.
St Cyrus, Ecclesgreig, pool at Home Farm	NO732660	2001	Welch, D.
Fettercairn, Hallhill Loch	NO602725	1978	Gerrie, B.
St Cyrus, Loch Cyrus	NO733660	1978	Gerrie, B.
St Cyrus, Lauriston Castle	NO759669	1978	Gerrie, B.
<i>Luthermuir, Dourie Burn</i>	<i>NO66</i>	<i>1935</i>	<i>Lee, J.</i>
<i>St Cyrus, coast near</i>	<i>NO76</i>	<i>1905</i>	<i>Somerville, A.</i>

**M227 *Paris quadrifolia* L.****Herb-Paris****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1767 to 2021**Habitat** Old woodland on rich soils.

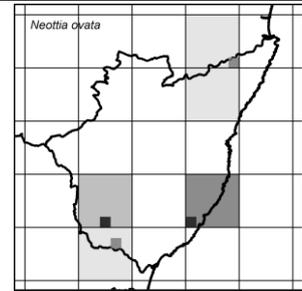
**Commentary** Rhizomatous patch-forming perennial, the stems erect and each bearing a single whorl of broadly elliptical leaves, the stems continuing to support a single, upward-pointing flower having four thin, pointed, green tepals. Locally rare, known from 1767 at its one surviving site. Elsewhere widespread but local with recent records from few sites in Scotland, the closest being near Keith (Banffshire) and Den of Airlie (Angus).



Location	Grid Ref	Year	Recorder / Reporter
<b>Kingcausie, Corbie Den, marsh in woodland</b>	<b>NJ86060002</b>	<b>2021</b>	<b>Elston, D.</b>
<i>Arbuthnott Parish [perhaps in NO77]</i>	<i>NO87</i>	<i>1835-1845</i>	<i>New Statistical Account</i>
<i>Den Finella</i>	<i>NO7766</i>	<i>1840</i>	
<i>Den of Morpie</i>	<i>NO76C</i>	<i>1835-1845</i>	<i>New Statistical Account</i>

**M228 *Neottia ovata* (L.) Bluff & Fingerh.****Common Twayblade****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2020**Habitat** Sunny positions on rich woodland or moss soils.

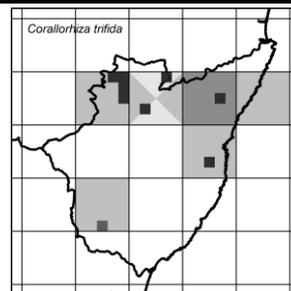
**Commentary** Perennial characterised by having two opposite, oval leaves close to ground level, above which the erect, leafless stems bear a loosely cylindrical inflorescence of green, almost human-shaped flowers. Locally rare and much reduced in distribution, present only at two sites of which the largest population is at Esslie Moss. Elsewhere widespread and rather frequent on rich soils, in Scotland not recorded recently from many former sites, the closest recent records being from Murtle Den (South Aberdeenshire) and by Balgavies Loch (Angus).



Location	Grid Ref	Year	Recorder / Reporter
<b>Benholm, den downstream of Castle</b>	<b>NO80367008</b>	<b>2018</b>	<b>Elston, D.</b>
<b>Esslie Moss, ride under power cables</b>	<b>NO647709</b>	<b>2020</b>	<b>Elston, D.</b>
<i>Maryculter, small wood a little W of Heathcote</i>	<i>NJ8900</i>	<i>1820-1859</i>	<i>Dickie, G.</i>
<i>Kingcausie [perhaps in NJ80]</i>	<i>NO89</i>	<i>1820-1859</i>	<i>Gammie</i>
<i>Balmakewan, fir plantation 600 yds S of Free Church</i>	<i>NO6666</i>	<i>1820-1859</i>	<i>Simpson</i>

**M229 *Corallorhiza trifida* Châtel.****Coralroot Orchid****Local Origin** Native**National Status** VU, NS, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/8/8**Earliest to Latest Record (or start and end of intervals)** 1955 to 2023**Habitat** In sphagnum moss in association with willows.

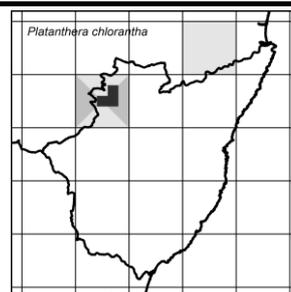
**Commentary** Saprophytic perennial lacking chlorophyll, the stems erect with a few scale-like leaves, the inflorescence cylindrical, rather diffuse, each flower predominantly green with a white lip. Locally scarce but apparently increasing in line with national trends. Elsewhere a northern species, very local but mostly in central to eastern Scotland, recorded recently from eight tetrads in Angus and 18 in South Aberdeenshire.



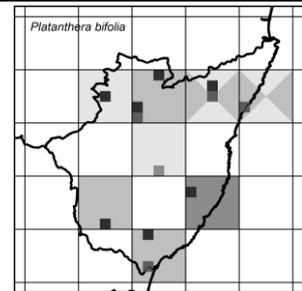
Location	Grid Ref	Year	Recorder / Reporter
Auchattie, sphagnum below birch and willow	NO686946	2002	Welch, D.
Banchory, Upper Lochton, wet woodland under birch	NO69469738	2010	Waddell, J.; Murphy, P.
Glassel, Brathens, sphagnum in birch wood	NO67939808	2023	Elston, D.
Loch of Park, alder and birch woodland	NO7698	2010	Green, I.
Tilquhillie, swamp below birch and willow	NO72749353	2009	Welch, D.
Netherley, Red Moss, below willow	NO860943	2004	Waddell, J.
Loch of Lumgair	NO852829	2019	Peaker, A.
Esslie Moss	NO644707	1980	Ferreira, C.

**M230 *Platanthera chlorantha* (Custer) Rchb.****Greater Butterfly-orchid****Local Origin** Native**National Status** NT, -, SBL**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2021**Habitat** Neutral grassland.

**Commentary** Erect perennial with leaves decreasing in size up the stem, the inflorescence rather diffuse, cylindrical, comprising flowers with greenish-whitish petals in a Latin cross-shape having pollinia positioned to the side of the widely-open entrance to the ovary. Locally rare, known since 1957 from one current site and discovered at another in 2021. Elsewhere widespread but rather local, in Scotland the largest aggregations of sites are in the Central Belt and in the west, recorded recently once in Angus (near Loch of Lintrathen) also rarely along the River Dee (South Aberdeenshire) to Mar Lodge.



Location	Grid Ref	Year	Recorder / Reporter
Inchmarlo, grassland under open woodland	NO67209672	2021	Allen, P.
Blackhall, Glenbogle, grassland by R Dee	NO661958	2020	Elston, D.; Cox, J.
Strachan, Tillylair	NO64679409	2004	Begbie, R.
Inchmarlo, hazel copse at Glencommon	NO660970	1983	Marren, P.
Maryculter House, wood on N side avenue	NJ80	1820-1859	Dickie, G.

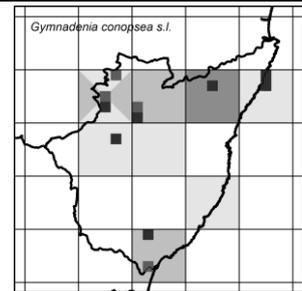
**M231 *Platanthera bifolia* (L.) Rich.****Lesser Butterfly-orchid****Local Origin** Native**National Status** VU, -, SBL**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/4/5**Earliest to Latest Record (or start and end of intervals)** 1880 to 2022**Habitat** Marshy grassland and grassy heathland.

**Commentary** Erect perennial with leaves decreasing in size up the stem, the inflorescence rather diffuse, cylindrical, comprising flowers with greenish-white-petals in a Latin cross shape having pollinia positioned adjacent to one another, thereby blocking the entrance to the ovary. Locally scarce, recently found at some sites but apparently lost from other sites in line with Scottish trends. Elsewhere scattered and restricted to regions with heathland, the largest aggregation of sites being in north-west Scotland, recorded recently from three tetrads in Angus and five in South Aberdeenshire.

Location	Grid Ref	Year	Recorder / Reporter
Strachan, Tillylair	NO64679409	2021	Begbie, R.
Crathes, marsh at Myrebird	NO750994	2010	Green, I.
Maryculter, Invercrynoch, marsh	NO857978	2019	Witte, H.
Arbuthnott, marsh in relic heath	NO80567700	2018	Elston, D.
Garvock, West Bradieston SSSI, wet grassland	NO72696891	2021	Elston, D.; Peaker, A.; Blow, C.
Esslie Moss, wet grassland	NO64407076	2022	Elston, D.
Strachan, marsh at Eslie	NO716917	1999	Welch, D.
Netherley, Red Moss	NO852947	1984	Geddes, C.
Newtonhill, marsh at Mains of Monduff	NO9092	1979	Marren, P.
Morphie, Waterside	NO725624	1981	Haes, C.
Glenbervie, Burn of Guinea	NO7481	1954	Gardiner, J.
Strachan to Inchmarlo (hectad)	NO69	1957	Sommerville, A.

**M232 *Gymnadenia conopsea s.l.*****A Fragrant-orchid****Local Origin** Native**National Status** -, -, -**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1930 to 2022**Habitat** Damp, grassy heathland with an element of nutrient flushing.

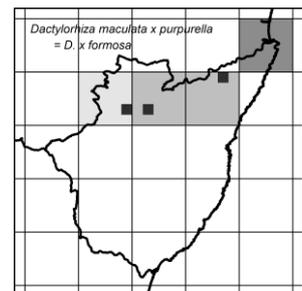
**Commentary** Erect perennial with leaves decreasing in size up the stem, the inflorescence cylindrical, comprising delicate, scented, pink flowers each with a long, narrow, backward-pointing spur. Locally scarce, found recently at some new sites but apparently lost from several former sites. The original, single, Fragrant-orchid species is now referred to as *Gymnadenia conopsea s.l.* having been split into three species in 1997, only one of which (*G. borealis*) has been found in Kincardineshire. Elsewhere, fragrant orchids are widespread, being frequent in some hill areas including parts of upland Angus and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
<b><i>Gymnadenia borealis</i> (-, -, -)</b>			
Garvock, West Bradieston SSSI, wet grassland	NO73216879	2021	Elston, D.; Peaker, A.; Blow, C.
Findon Moor SSSI, heathy grassland	NO941973	2020	Routledge, G.
Maryculter, Invercrynoch, marsh	NO857978	2019	Witte, H.
Strachan, marsh near Eslie	NO71849196	2022	Elston, D.
Strachan, Tillylair	NO64599399	2021	Begbie, R.
Glen Dye, E of Heatherhaugh, heathland	NO66498708	2020	Elston, D.
<b><i>Gymnadenia conopsea s.l.</i> (-, -, -)</b>			
Glassel, old grassland near Brathens	NO6798	1993	Leatham, J.
Morphie, Waterside	NO725624	1981	Haes, C.
Porthlethen (hectad)	NO99	1955	Robson, N.
Glenbervie, Burn of Guinea	NO78	1954	Gardiner, J.
Inverbervie (hectad)	NO87	1950-1969	

**M233 *Dactylorhiza maculata x purpurella* = *D. x formosa* (T.Stephenson & T.A.Stephenson) Soó****A Hybrid Marsh-orchid****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/3/4**Earliest to Latest Record (or start and end of intervals)** 1950 to 2022**Habitat** Damp grassland.

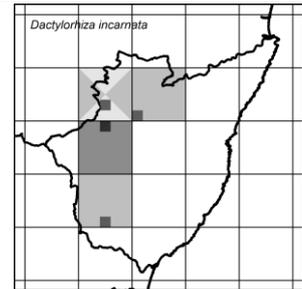
**Commentary** Erect perennial with spotted leaves decreasing in size up the stem, the inflorescence rather cylindrical, the flowers pale pink marked with darker loops, spots and stripes, the lip shallowly three-lobed. Locally scarce, this hybrid between our two most widespread orchids, *D. maculata* (Heath Spotted Orchid) and *D. purpurella* (Northern Marsh Orchid), is potentially under-recorded. Elsewhere widely distributed but very infrequent in the north and west in line with the distribution of *D. purpurella* (Northern Marsh Orchid).



Location	Grid Ref	Year	Recorder / Reporter
Strachan, marsh at Gellan	NO698922	2014	Welch, D.
Tilquhillie, marsh	NO728935	2012	Welch, D.
Maryculter, permanent grassland at Blaikiewell	NO865984	2012	Welch, D.
Aberdeen (hectad)	NJ90	2000-2009	Welch, D.

**M234 *Dactylorhiza incarnata* (L.) Soó****Early Marsh-orchid****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1930 to 2014**Habitat** Short fen or flushed mire.

**Commentary** Erect perennial with hooded, unspotted leaves decreasing in size up the stem, the inflorescence broadly cylindrical, the flowers pinkish with the sides of the labellum bent backwards and the lateral sepals swept upwards. Locally rare, the plants at Greendams are the heathland form, subsp. *pulchella*, in common with many other areas not recorded prior to 1950 perhaps as the result of taxonomic uncertainty. Elsewhere widespread but infrequent, recorded recently from 13 tetrads in Angus and from 9 in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Strachan, marsh near Greendams	NO64268974	2022	Elston, D.
Esslie Moss	NO644707	1980	Ferreira, C.
Strachan, near Eslie	NO7191	1972	
Strachan, wet grassland	NO656921	1993	Begbie, R.

**M235 *Orchis mascula* (L.) L.****Early-purple Orchid****Local Origin** Native**National Status** -, -, -**Local Status** LS; 9 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 8/8/9**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Woodland or damp grassland on rich soil.

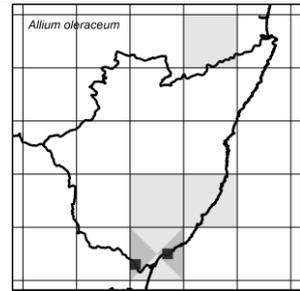
**Commentary** Erect perennial, the lower leaves with dark blotches, the upper leaves sheathing with no blade, the flowers pinkish purple, the upper stems and bracts more deeply coloured than the flowers. Locally scarce, still widespread but seemingly lost from several former sites. Elsewhere widespread and generally frequent, in Scotland apparently lost from many former sites, recorded recently from 20 tetrads in Angus but only from four in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, along cliff top	NO7564	2005	Green, I.; Roberts, G.
Haughs of Benholm, grassland	NO808681	2019	Routledge, G.
Benholm, woodland in den	NO80556973	2021	Elston, D.
Arbuthnott, Den of Pitcarles	NO8175	2018	Elston, D.
Garron Point, Perthumie Bay, coastal grassland	NO891886	2007	Welch, D.
Portlethen Village, coast	NO93609629Ø	2005	MacDonald, T.
Tilquhillie, roadside by woodland	NO71149476	2021	Welch, D.
Strachan, E of	NO6892	2004	Welch, D.
Fettercairn, The Burn, wooded gorge of River North Esk	NO59457166	2023	Brendish, J.
Morphie, deciduous woodland	NO715626	1998	Welch, D.
Johnshaven, rocky outcrop	NO784663	1998	Sandford, M.
Banchory, grassland by R Dee	NO6895	1998	Simpson, C.
<i>Fettercairn (hectad)</i>	<i>NO67</i>	<i>1948</i>	
<i>Den Finella</i>	<i>NO76</i>	<i>1820-1859</i>	<i>Stephen</i>
<i>Glenbervie (hectad)</i>	<i>NO78</i>	<i>1950-1960</i>	
<i>Maryculter (hectad)</i>	<i>NO89</i>	<i>1950-1960</i>	
<i>Newtonhill</i>	<i>NO9193</i>	<i>1964</i>	<i>Pritchard, N.</i>

**M236 *Allium oleraceum* L.****Field Garlic****Local Origin** Native**National Status** VU, -, SBL**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2005**Habitat** Dry grassland.

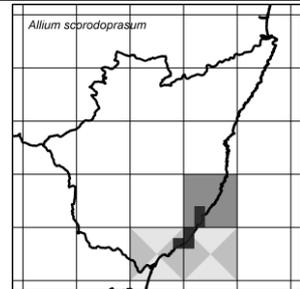
**Commentary** Erect bulb-forming perennial, the stems and leaves thin and rounded in cross-section, lacking a ligule, the inflorescence a head of bulbils above a spathe of two persistent valves, usually with long-stalked flowers. Locally rare, all records but one from the south-east corner. Elsewhere widespread but local, with a cluster of recent records from St Cyrus to Perth (East Perthshire).



Location	Grid Ref	Year	Recorder / Reporter
Morphie, woodland	NO717620	2005	Welch, D.
St Cyrus, cliff top path	NO76106502	2005	Green, I.
<i>Arbuthnott [perhaps in NO77], introduced</i>	NO87	1820-1859	Chrystall, L.
<i>Kingcausie, Blairs, by farm road</i>	NJ80	1968	Reid, G.

**M237 *Allium scorodoprasum* L.****Sand Leek****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/4/5**Earliest to Latest Record (or start and end of intervals)** 1948 to 2023**Habitat** Dry, coastal grassland.

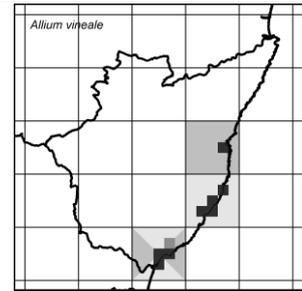
**Commentary** Erect bulb-forming perennial, the leaves with flat leaf blades, the stems unbranched, bearing a spherical cluster of bulbils usually with long-stalked pinkish flowers. Locally scarce, by the coast from Inverbervie to Johnshaven. Elsewhere a local species mostly in northern England and south-east Scotland, recorded recently from near Arbroath and Forfar (Angus), also from by the River Don in Aberdeen (South Aberdeenshire) and by the River Ythan at Forvie (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Johnshaven, coastal grassland	NO804674	2013	Welch, D.
Haughs of Benholm	NO817694	2011	Green, I.
Gourdon, tall grassland by shore	NO831710	2020	Elston, D.; Cox, J.
Inverbervie, Upper Mill, by Bervie Water	NO82647330	2023	Elston, D.
Johnshaven, old railway	NO796673	1998	Welch, D.

**M238 *Allium vineale* L.****Wild Onion****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/3**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Dry, coastal grassland.

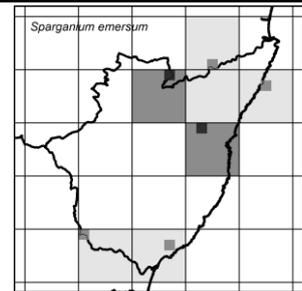
**Commentary** Erect bulb-forming perennial, the leaves cylindrical, with distinct ligules, the stem unbranched, bearing a spherical cluster of bulbils and/or long-stalked pinkish flowers above a non-persistent spathe. Locally scarce, along the coast from Braidon Bay to St Cyrus. Elsewhere widespread and frequent in the south, becoming increasingly less frequent and more coastal towards the north, recorded from 10 tetrads in Angus but only one (Donmouth) in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Dunnottar, grassland immediately above shore	NO87998430	2023	Elston, D.; Peaker, A.
Braidon Bay, Glasslin Burn	NO86737747Ø	2011	Green, I.
Kinneff, coastal grassland	NO854743	2021	Elston, D.
Inverbervie, Bervie Bay	NO835725	2019	Routledge, G.
St Cyrus NNR, steep grassland by cliffs	NO75416465	2020(2023)	Elston, D.
<i>Den Finella</i>	NO7766	1820-1859	Stephen

**M239 *Sparganium emersum* Rehmman****Unbranched Bur-reed****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2017**Habitat** In or adjacent to still or slow-flowing fresh water.

**Commentary** Erect perennial, the leaves long, parallel sided, keeled below and not inflated at the base, the inflorescence tall comprising spherical flower heads, several male heads above multiple female heads, each head stalked but these stalks arising directly from an unbranched central axis. Locally rare, only twice recorded since 1970. Elsewhere widespread but infrequent in lowland areas, becoming less frequent further north, in Scotland apparently lost from many former sites but recorded recently from five tetrads in Angus and six tetrads in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Loch of Park, edge of Bo Burn	NO763988	2014	Welch, D.
Rickarton	NO83578921Ø	2017	Espie, A.
<i>Maryculter, ditch in wood by avenue to Maryculter House</i>	NJ8400	1820-1859	Fleming, A.
<i>Findon, shallow pools in moist hollow E of</i>	NO9497	1880-1919	Trail, J.
<i>Fettercairn, Arnhall Moss</i>	NO66E	1820-1859	Croall, A.
<i>St Cyrus, in Den of Jackston</i>	NO7667	1820-1859	Stephen

**M240 *Sparganium angustifolium* Michx.**

Floating Bur-reed

Local Origin Native

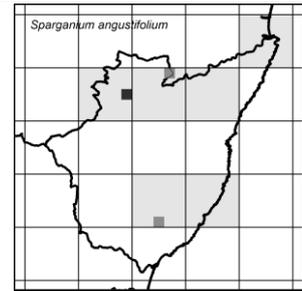
National Status -, -, -

Local Status LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1

Earliest to Latest Record (or start and end of intervals) 1820 to 2001

Habitat Base-poor, usually still, freshwater.

**Commentary** Rooted perennial aquatic with long, strap-shaped floating leaves, the inflorescence held shortly above the water surface comprises spherical flower-heads with usually two male above multiple female heads. Locally rare, much reduced in distribution, many former sites along the River Dee valley might have been derived from material upstream and so may never have held self-sustaining populations, the pool at Auchattie no longer has sufficient open water to be suitable. Elsewhere restricted to hill and peaty areas of the north and west, including upland Deeside (South Aberdeenshire) and Glen Esk (Angus), so may recolonise unaided.



Location	Grid Ref	Year	Recorder / Reporter
<b>Auchattie, pool in forest</b>	<b>NO687946</b>	<b>2001</b>	<b>Elston, D.</b>
<i>Banchory [perhaps in NO79]</i>	<i>NO69</i>	<i>1820-1859</i>	<i>Brichan, J.</i>
<i>Loch of Park</i>	<i>NO7698</i>	<i>1851</i>	<i>Boswell-Syme, J.</i>
<i>Nigg Parish</i>	<i>NJ90</i>	<i>1880-1919</i>	<i>Trail, J.</i>
<i>Maryculter Parish [perhaps in NJ80]</i>	<i>NO89</i>	<i>1880-1919</i>	<i>Trail, J.</i>
<i>Garvock, marsh above kirk</i>	<i>NO77K</i>	<i>1820-1859</i>	<i>Stephen</i>
<i>Arbuthnott [perhaps in NO77]</i>	<i>NO87</i>	<i>1820-1859</i>	<i>Chrystall, L.</i>

**M241 *Sparganium natans* L.**

Least Bur-reed

Local Origin Native

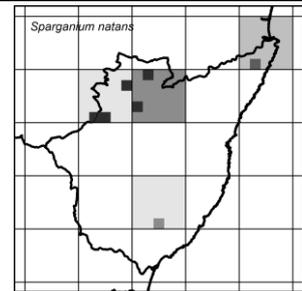
National Status -, -, -

Local Status LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/4/5

Earliest to Latest Record (or start and end of intervals) 1937 to 2020

Habitat Shallow ponds and pond margins.

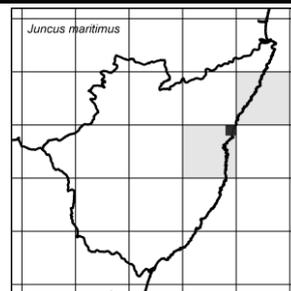
**Commentary** Rooted perennial aquatic with short, narrow, floating leaves, the shortly emergent inflorescence comprising spherical flowerheads with usually one male flowerheads above the female heads. Locally scarce, not recorded until 1937. Elsewhere mostly in the north and west where it is widespread but rather infrequent, in Scotland not recorded recently from many former sites, recorded recently from 25 tetrads in South Aberdeenshire but only three in Angus.



Location	Grid Ref	Year	Recorder / Reporter
<b>Strachan, mire near Cuttie's Wood</b>	<b>NO63249024</b>	<b>2020</b>	<b>Elston, D.</b>
<b>Strachan, lochan at Bogarn</b>	<b>NO650902</b>	<b>2011</b>	<b>Green, I.</b>
<b>Banchory, curling pond</b>	<b>NO683963</b>	<b>2015</b>	<b>Welch, D.</b>
<b>Tilquhillie, Craig of Affrusk, new pool</b>	<b>NO71409376</b>	<b>2018</b>	<b>Elston, D.; Cox, J.</b>
<b>Hirn, SW of</b>	<b>NO72029918Ø</b>	<b>2008</b>	<b>Green, I.</b>
<i>Loirston Loch</i>	<i>NJ9301</i>	<i>1970-1979</i>	<i>Marren, P.</i>
<i>Garvock, St James' Lochs</i>	<i>NO744712</i>	<i>1957</i>	<i>Graham, R.; Harley, R.</i>

**M242 *Juncus maritimus* Lam.****Sea Rush****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1866 to 2021**Habitat** Coastal marshes.

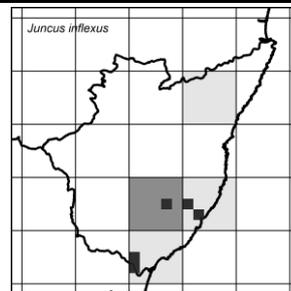
**Commentary** Robust stand-forming perennial with long, tubular leaves branching at intervals from an erect stem, the rather diffuse, brownish inflorescence over-topped by a sharply pointed bract which looks like an extension of the stem. Locally rare, possibly there has only ever been one stand of this species recorded that has survived for over 150 years. Elsewhere a widespread coastal species, frequent in the south and west but with very few sites round the northern and eastern coasts from North Uist to the Humber Estuary.



Location	Grid Ref	Year	Recorder / Reporter
Garron Point, Perthumie Bay, grassland by tide line	NO89178867	2021	Elston, D.; Cox, J.

**M243 *Juncus inflexus* L.****Hard Rush****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/4/4**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Damp ground on clay-rich soils.

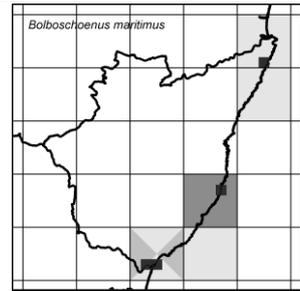
**Commentary** Tufted perennial, the stems apparently leafless, glaucous and wiry, the inflorescence diffuse, brownish. Locally scarce, only recorded from lowland valleys in the south-east. Elsewhere widespread and frequent south of the Highland Boundary Fault apart from in south-west Scotland, almost absent further north, recorded recently from five tetrads in Angus but in South Aberdeenshire only with certainty as an introduction in ponds by the Western Peripheral Road.



Location	Grid Ref	Year	Recorder / Reporter
Morphie, streamside	NO709647	2008(2020)	Welch, D.
Morphie, by R. North Esk	NO71636222	2020	Elston, D.
Inverbervie, wet grassland by Bervie Water	NO82627338Ø	2007	Lawrie, J.; Donald, M.
Arbuthnott, Den of Pitcarles, valley bottom and sides	NO813753	2018	Elston, D.
Mill of Garvock, wet grassland E of track	NO77297518	2023	Elston, D.
Maryculter (hectad)	NO89	1968	

**M244 *Bolboschoenus maritimus* (L.) Palla****Sea Club-rush****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/4/4**Earliest to Latest Record (or start and end of intervals)** 1820 to 2020**Habitat** Damp, silty soils at the coast.

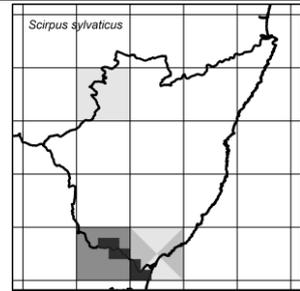
**Commentary** Stand forming perennial with triangular stems and long linear leaves, the inflorescence comprising clusters of dense, brown, ovoid flowering spikes overtopped with leaf-like bracts. Locally rare, in sheltered places flooded at least periodically by high tides. Elsewhere widespread and frequent around all coasts and estuaries excepting the far north of Scotland.



Location	Grid Ref	Year	Recorder / Reporter
Cove Bay, in tidal zone	NJ95370056	2018	Elston, D.
Braidon Bay	NO86907744Ø	2011	Green, I.
St Cyrus NNR, margins of muddy tidal inlet	NO73846255	2010(2020)	Haynes, T.;Haynes, R.
<i>Nigg Parish</i>	<i>NJ90</i>	<i>1880-1919</i>	<i>Trail, J.</i>
<i>Banchory-Devenick Parish [perhaps in NJ90]</i>	<i>NO99</i>	<i>1880-1919</i>	<i>Trail, J.</i>
<i>Gourdon, coast S of</i>	<i>NO86</i>	<i>1820-1859</i>	<i>Stephen</i>

**M245 *Scirpus sylvaticus* L.****Wood Club-rush****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/4/5**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Moist grassland adjacent to the River North Esk.

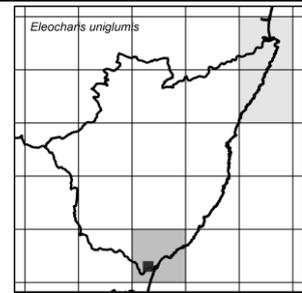
**Commentary** Patch-forming perennial, the erect stems roundly 3-angled with many leaves that are W-shape in cross-section, the inflorescence diffuse and brownish-green with individually tiny flowers. Locally rare, from the sea to slightly upstream of Marykirk. Elsewhere widespread but rather infrequent south of the Highland Boundary Fault, recorded recently from six tetrads in Angus and a scattering of more northerly sites from Dyce (South Aberdeenshire) to its northerly limit near Fochabers (Moray).



Location	Grid Ref	Year	Recorder / Reporter
Balmakewan, by R North Esk	NO67096574	2019	Elston, D.
Marykirk, Balmakewan, banks of R North Esk	NO67406592	2022	Elston, D.
Morphie, by R North Esk	NO71996183	2016(2020)	Page, L.
<i>Glassel, banks of Burn of Beltie</i>	<i>NO69</i>	<i>1820-1859</i>	<i>Adams</i>

**M246 *Eleocharis uniglumis* (Link) Schult.****Slender Spike-rush****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1850 to 2020**Habitat** Wet, silty ground by the sea.

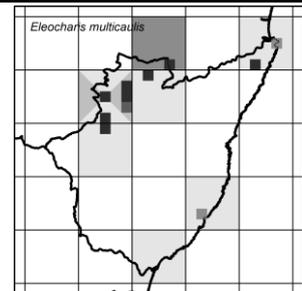
**Commentary** Stand-forming perennial with erect, cylindrical, green stems that appear leafless, ending in a single, dense, upward-pointing cluster of many flowers without petals but with brown scale-like bracts, the lowest such bract having no associated reproductive parts and spreading round almost the entire stem at its base. Locally rare, long lost from the mouth of the River Dee but discovered at St. Cyrus in 1974. Elsewhere very local inland in the south but widely distributed round the all coasts, most frequent in west Scotland, the closest recent records are from near Montrose (Angus) and Donmouth (South Aberdeenshire).



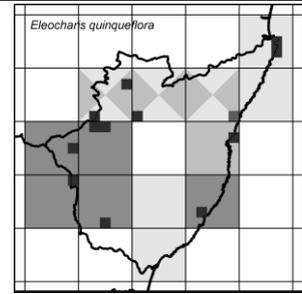
Location	Grid Ref	Year	Recorder / Reporter
<b>St Cyrus NNR, margins of muddy tidal inlet</b>	<b>NO73856259</b>	<b>2020</b>	<b>Elston, D.</b>
<i>Nigg Parish, coast</i>	<i>NJ90</i>	<i>1880-1919</i>	<i>Trail, J.</i>
<i>Torry, R Dee near Wellington Bridge</i>	<i>NJ90</i>	<i>1850</i>	<i>Boswell-Syme, J.</i>
<i>Banchory-Devenick Parish, coast</i>	<i>NO99</i>	<i>1880-1919</i>	<i>Trail, J.</i>

**M247 *Eleocharis multicaulis* (Sm.) Desv.****Many-stalked Spike-rush****Local Origin** Native**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/5/6**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Wet, flushed ground on a peaty substrate.

**Commentary** Short but densely tufted perennial, the cylindrical green stems that appear leafless end in a single dense, upward-pointing cluster of many flowers without petals but with brown scale-like bracts, the lowest two such bracts having no associated reproductive parts and each spreading round about half the stem at its base. Locally scarce, but much less widespread than formerly. Elsewhere widespread and frequent on hill ground and peaty areas of the west, otherwise very local, recorded recently in Angus only from near Lundie but from about six sites in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
<b>Strachan, Greendams</b>	<b>NO64719072Ø</b>	<b>2019</b>	<b>Loizou, T.</b>
<b>Blackhall Forest, gravel pit in forest</b>	<b>NO645958</b>	<b>2002</b>	<b>Welch, D.</b>
<b>Auchattie, sphagnum-covered pond</b>	<b>NO68759464</b>	<b>2020</b>	<b>Elston, D.; Cox, J.</b>
<b>Banchory, Burnett Park, curling pond</b>	<b>NO6896</b>	<b>2006</b>	<b>Green, I.; Duncan, M.</b>
<b>Crathes, mire in Bardshillock Wood</b>	<b>NO722980</b>	<b>2015</b>	<b>Welch, D.</b>
<b>Hirn, bog at Rashenloch</b>	<b>NJ76160027</b>	<b>2023</b>	<b>Elston, D.</b>
<b>Loirston Loch, marsh besides</b>	<b>NJ9300</b>	<b>2001</b>	<b>Welch, D.</b>
<i>Strachan, marsh near Blackness</i>	<i>NO691929</i>	<i>1977</i>	<i>Welch, D.</i>
<i>Bridge of Dye (hectad)</i>	<i>NO68</i>	<i>1950</i>	<i>Chater, A.</i>
<i>Nigg Bay, marshes</i>	<i>NJ9604</i>	<i>1820-1859</i>	<i>Dickie, G.</i>
<i>Inverbervie</i>	<i>NO8372</i>	<i>1820-1859</i>	<i>Stephen</i>
<i>St Cyrus</i>	<i>NO76</i>	<i>1820-1859</i>	<i>Stephen</i>

**M248 *Eleocharis quinqueflora* (Hartmann) O.Schwarz****Few-flowered Spike-rush****Local Origin** Native**National Status** -, -, -**Local Status** LS; 10 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/4/4**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Open, wet, flushed ground on a peaty substrate.

**Commentary** Loosely tufted perennial, the cylindrical green stems that appear leafless end in a single dense, upward-pointing cluster of few flowers without petals but with brown scale-like bracts, the lowest such bract having no associated reproductive parts and spreading round almost the entire stem at its base. Locally scarce, occurring only in small populations and much reduced in distribution lost from many former sites. Elsewhere widespread, not recorded recently from many sites in lowland areas but still frequent in the north and west including hill areas of Angus and South Aberdeenshire.

Location	Grid Ref	Year	Recorder / Reporter
Glen Dye, Water of Charr tetrad NO57Z	NO59507949	2020	Elston, D.
Glen Dye, flush	NO58088400	2019	Elston, D.
Strachan, mire near Cuttie's Wood	NO63289023	2020	Elston, D.
Strachan, marsh near Eslie, flush	NO71759198	2022	Elston, D.
Banchory, Burnett Park, curling pond	NO6896	2006	Green, I.; Duncan, M.
Nigg, Girdle Ness, soak by shore	NJ97050544	2020	Elston, D.
Altens, flush in coastal grassland	NJ96460258	2023	Elston, D.
Garron Point, seepage through damp turf by tideline	NO89038788	2019	Elston, D.
Inverbervie, Kinghornie, coastal soak	NO83897257	2021	Elston, D.
Esslie Moss, open area on NE edge of	NO64747091	2020	Elston, D.
Strachan, Midtown	NO7191	1972	
Muchalls, marsh by sea	NO899908	1995	Welch, D.
Maryculter Parish [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Banchory-Devenick Parish [perhaps in NJ90]	NO99	1880-1919	Trail, J.
Nigg Parish	NJ90	1880-1919	Trail, J.
Benholm, marshes [perhaps in NO76, NO87]	NO77	1820-1859	Stephen
Garvock [perhaps in NO77]	NO76	1820-1859	Stephen

**M249 *Eleogiton fluitans* (L.) Link**

Floating Club-rush

Local Origin Native

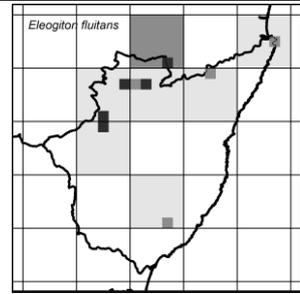
National Status -, -, -

Local Status LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/4/4

Earliest to Latest Record (or start and end of intervals) 1820 to 2023

Habitat Acid fresh water.

**Commentary** Rooted perennial aquatic with spreading, much-branched, leafy, underwater stems, the inflorescences comprising single, short, brown, pointed spikes at the end of a short branch. Locally scarce, much reduced in distribution in lowland areas and now only found in the vicinity of Banchory and Strachan. Elsewhere widespread but local, in Scotland mostly in the north and west, recently recorded in Angus only from Glen Clova but in from seven tetrads South Aberdeenshire, all in the River Dee valley upstream to Ballater.



Location	Grid Ref	Year	Recorder / Reporter
Strachan, lochan at Bogarn	NO650899	2011	Welch, D.
Banchory, curling pond	NO683963	2010	Welch, D.
Crathes, pool in Ley Wood	NO724968	2006	Welch, D.
Hirn, bog at Rashenloch	NJ76220027	2023	Elston, D.
<i>Garvock, Whitewater Moss</i>	NO7670	1820-1859	Stephen
<i>Loch of Leys</i>	NO7097	1820-1859	Adams, F.
<i>Loch of Park</i>	NO79	-1860	
<i>Maryculter, near the House</i>	NO8499	1820-1859	Dickie, G.
<i>Nigg Bay, above; Nigg Bay, above</i>	NJ90	1837	Dickie, G.

**M250 *Blysmus rufus* (Huds.) Link**

Saltmarsh Flat-sedge

Local Origin Native

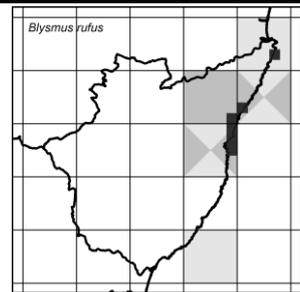
National Status -, -, -

Local Status LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/4/5

Earliest to Latest Record (or start and end of intervals) 1820 to 2022

Habitat Coastal, in damp soils within reach of sea spray.

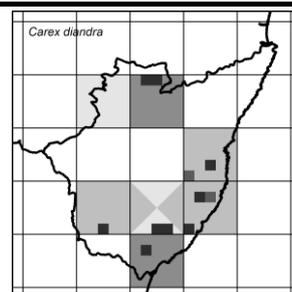
**Commentary** Short patch-forming perennial, the cylindrical green stems supporting around ten brown flowering spikelet, arranged in two vertical rows on either side of a central axis. Locally scarce, from Aberdeen to Dunnottar, formerly occurring south to Johnshaven. Elsewhere a coastal species widespread and frequent in north-west Scotland, decreasing in frequency southwards and absent from a line joining the Humber and Severn estuaries, recorded recently in Angus only from Boddin to Montrose Basin and not at all in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Altens, coast	NJ96670305Ø	2019	Loizou, T.
Newtonhill, coast at Whiteland Head	NO91429323	2020	Peaker, A.
Muchalls, bay S of Mill, soak at shore	NO89899086	2006	Welch, D.
Garron Point, soak at Perthumie Bay	NO89088849	2008(2022)	Welch, D.
Dunnottar, shore	NO88008431	2022	Norton, T.
<i>Johnshaven, coast at Brotherton</i>	NO86	1820-1836	Murray, A.

**M251 *Carex diandra* Schrank****Lesser Tussock-sedge****Local Origin** Native**National Status** NT, -, -**Local Status** LS; 8 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/5/4**Earliest to Latest Record (or start and end of intervals)** 1809 to 2022**Habitat** Wet mires and fen peat.

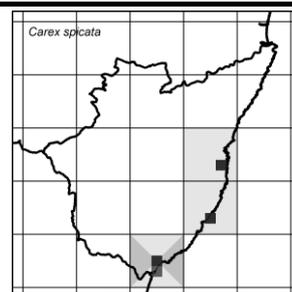
**Commentary** Rhizomatous weakly tufted perennial, the leaves narrow, linear, with a rounded ligule, the spikes all similar, sessile, clustered towards the top of slender, trigonous stems, the utricles convex on both faces. Locally scarce, widespread but very habitat-specific. Elsewhere widespread but local, apparently lost from many former sites, recorded recently from 13 tetrads in Angus and eight in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Hirn, at Cunnach Moss	NO7599	2000	Francis, I.
Crathes, mire in Bardshillock Wood	NO722980	2015	Welch, D.
Loch of Lumgair, wettest part of fen	NO85338284	2021	Elston, D.
Roadside of Kinneff, Loch Ery	NO83957668	2020	Elston, D.
Garvock, N of St James's Lochs	NO74547167	2014	Jensen, E.
Benholm, fen at Annie's Dam	NO80217184	2020	Elston, D.
St Cyrus, Brandshill Wood, mire	NO73356789	2022	Elston, D.
Esslie Moss, open area on NE edge of	NO64747092	2020	Elston, D.
Barras, Bruxie Hill, lochs	NO819803	1980	Ferreira, C.
Parish of Laurencekirk, bogs	NO77	1904	Beattie, J.
Strachan	NO69	1872	Sim, T.

**M252 *Carex spicata* Huds.****Spiked Sedge****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/3**Earliest to Latest Record (or start and end of intervals)** 1863 to 2023**Habitat** Dry, ungrazed, mesotrophic grassland.

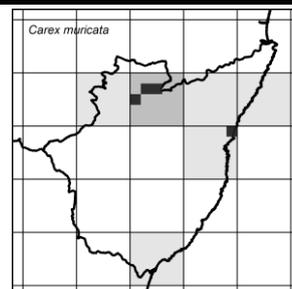
**Commentary** Weakly tufted perennial, the leaves narrow, linear with long pointed ligules, the spikes all similar, sessile, loosely clustered towards the top of slender, trigonous stems, the utricles with one face planar, the sides tapering gently to the tip. Locally rare, coastal, the known population at St Cyrus comprising a small number of large plants but perhaps elsewhere on grassland below the cliffs. Elsewhere widespread and frequent in the south, local in Scotland but with a concentration of sites around Glasgow, the closest recent records are from near Errol (East Perthshire) and Nethy Bridge (Easternness).



Location	Grid Ref	Year	Recorder / Reporter
Dunnottar, Old Hall Bay, dry sloping grassland	NO87938373	2019	Elston, D.
Inverbervie, Kinghornie, sloping coastal grassland	NO843728	2011	Green, I.
St Cyrus, trackside in steep grassland	NO751645	2015(2023)	Jensen, E.

**M253 *Carex muricata* L.****Prickly Sedge****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/4**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Ungrazed, rather scrubby grassland.

**Commentary** Perennial forming small but dense tufts, the leaves narrow, linear with a short, rounded ligule, the spikes all similar, sessile, loosely clustered towards the top of slender, trigonous stems, the utricles with one face planar, the sides curving markedly into a distinct beak. Locally rare, our plants are subspecies *pairae*, apparently missing from some former sites but perhaps at least partly as a result of confusion with *Carex spicata*. Elsewhere widespread and rather frequent in the south, local in Scotland with a concentration of records in Perthshire but absent from Angus, recorded recently from Sluie and Aberdeen (South Aberdeenshire) but only from one site further north.



Location	Grid Ref	Year	Recorder / Reporter
Garron Point, Perthumie Bay, shore	NO89118856	2018	Smedley, M.
Crathes, rabbit-grazed areas at former sandpit	NO744962	2021	Jensen, E.
Banchory, grassy slope by R Dee	NO70149534	2022	Grace, J., Jury, S. <i>et al.</i>
St Cyrus	NO76	1820-1859	Stephen
Dunnottar Castle S of, Thornyhive	NO88	1820-1859	Dickie, G.
Muchalls [perhaps in NO99]	NO89	1877	Trail, J.
Banchory-Devenick Parish [perhaps in NJ90]	NO99	1880-1919	Trail, J.
Strachan, W of	NO69	1874	Sim, J.

**M254 *Carex arenaria* L.****Sand Sedge****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/4**Earliest to Latest Record (or start and end of intervals)** 1840 to 2021**Habitat** Coastal sands and dune grassland.

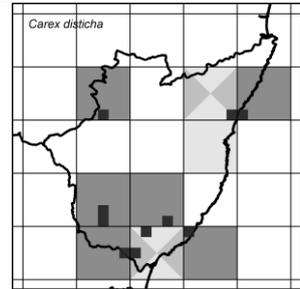
**Commentary** Spreading perennial with linear rhizomes giving rise to evenly spaced leafy stems, the linear leaves often rolled inwards, the curved stems bearing an elongated cluster of spikes which are all superficially similar but have the terminal one with only male flowers, the utricles broadly winged. Locally rare, not recorded prior to 1950 and likely lost from Nigg as a result of the new harbour development. Elsewhere widespread and frequent on almost all coasts.



Location	Grid Ref	Year	Recorder / Reporter
Nigg, at Girdle Ness	NJ9705	2008	Welch, D.
Stonehaven, Perthumie Bay monad	NO8988	2019(2021)	Marriott, R.
St. Cyrus NNR, dunes	NO7464	2002	Gimingham, C.

**M255 *Carex disticha* Huds.****Brown Sedge****Local Origin** Native**National Status** -, -, -**Local Status** LS; 8 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 6/7/6**Earliest to Latest Record (or start and end of intervals)** 1820 to 2021**Habitat** Marshes and fens.

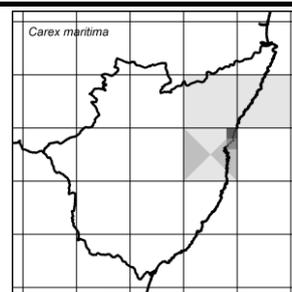
**Commentary** Perennial spreading by rhizomes to form loose patches, the flat, linear leaves branching at intervals off trigonous stems that are at first erect, later nodding to the side, weighed down by elongated clusters of spikes which are all superficially similar but with the terminal one either entirely or mainly composed of female flowers. Locally scarce, five sites have been discovered since 2010 and so it is likely more will be found. Widespread and frequent in most lowland areas south of the Highland Boundary Fault, local and largely coastal further north, recently recorded from 18 tetrads in Angus but only two in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Marykirk, flush and streamside in grassy den	NO692649	2019	Elston, D.
Esslie Moss	NO67K	2012	Smedley, M.
Fettercairn, damp ground in park by Kirk	NO65157351	2019	Elston, D.
Garvock, West Bradieston SSSI, marsh	NO72796853	2021	Elston, D.; Peaker, A.; Blow, C.
Garvock, Whitewater Moss	NO768704	2020	Elston, D.
Benholm, wet grassland in den	NO80526953	2018	Elston, D.; Cox, J.
Muchalls, bay S of Mill, soak at shore	NO89899086	2006	Welch, D.
Strachan, W of	NO64699157Ø	2019	Loizou, T.
<i>Den of Morphie</i>	NO76C	1858	Croall, A.
<i>St Cyrus, coast</i>	NO76	1835-1845	New Statistical Account
<i>Stonehaven, near [perhaps Muchalls]</i>	NO88	1842	Beveridge, R.

**M256 *Carex maritima* Gunnerus****Curved Sedge****Local Origin** Native**National Status** EN, NS, SBL**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1979**Habitat** Damp sand or short grassland regularly inundated by the sea.

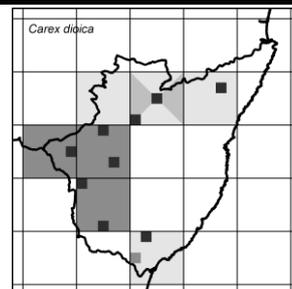
**Commentary** Short rhizomatous perennial forming open patches, the leaves narrowly linear, the stems thin and cylindrical, each bowed to one side by a dense, almost spherical head of densely packed, unstalked spikes. Locally with no recent records, seemingly lost from traditional sites but this is mobile species so it may recolonise unaided. Elsewhere a very local species of northern coasts, recently recorded at a cluster of sites round Newburgh (South Aberdeenshire) and Collieston (North Aberdeenshire) to the north, the only recent records to the south are from Gullane (East Lothian) although it was recorded at Boddin Point (Angus) in 1999.



Location	Grid Ref	Year	Recorder / Reporter
Garron Point	NO8988	1979	David, R.
<i>Banchory-Devenick Parish [perhaps in NJ90]</i>	NO99	1880-1919	Trail, J.
<i>Muchalls [perhaps in NO99]</i>	NO8582	1874	Sim, T.

**M257 *Carex dioica* L.****Dioecious Sedge****Local Origin** Native**National Status** -, -, -**Local Status** LS; 9 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/3**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Flushes in heathland or short vegetation in mires.

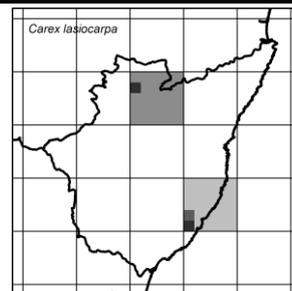
**Commentary** Short perennial spreading by rhizomes to form very open groups of single-sex plants, the leaves narrow, linear, inconspicuous, the stems erect, cylindrical, each ending in a single spike of either all male or of all female flowers. Locally scarce, although lost from several former sites there have been several recent discoveries and since the populations at extant sites are mostly small it is likely that more sites remain to be found. Elsewhere widespread and frequent in upland and peaty areas of the north and west, also in a small number lowland sites in Angus and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Maryculter, Berry Top, unimproved grassland	NO86339623	2020	Elston, D.
Durriss, Funach Wood	NO75429526Ø	2012	Green, I.
Strachan, marsh near Eslie	NO71789198	2022	Elston, D.
Strachan, mire near Greendams	NO64268974	2020	Elston, D.
Glen Dye, Hill of Gothie, flush by Spital Burn	NO66088260	2022	Elston, D.
Glen Dye, flush by Mid Grain of Badymicks	NO58088400	2019	Elston, D.
Glen Dye, flush below Cock Hill	NO60367993	2020	Elston, D.
Esslie Moss, open area on NE edge of	NO64737090	2020	Elston, D.
Garvock, West Bradieston SSSI, flush	NO7268	2021	Elston, D.; Peaker, A.; Blow, C.
<i>Den of Morphie</i>	NO76C	1820-1859	Croall, A.
<i>Maryculter Parish, bare wet places on moors</i>	NO89	1880-1919	Trail, J.
<i>Banchory [perhaps in NO69]</i>	NO79	1820-1859	Brichan, J.
<i>Strachan to Inchmarlo (hectad)</i>	NO69	1957	Sommerville, A.

**M258 *Carex lasiocarpa* Ehrh.****Slender Sedge****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1978 to 2021**Habitat** Mesotrophic mires.

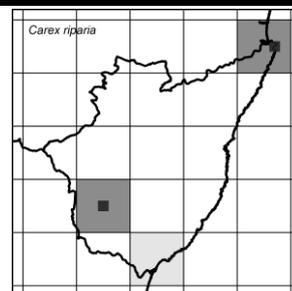
**Commentary** Rhizomatous stand-forming perennial with long but very narrow leaves, the erect stems bearing several well separated, narrowly cylindrical spikes, male ones at the top, female below, the utricles shortly hairy. Locally rare, first discovered in 1978 and only known from two sites. Elsewhere, widespread but rather local, in Scotland much less frequent in the east but recently recorded from clusters of sites near Dinnet (South Aberdeenshire) and Forfar (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Loch of Leys, fen	NO70019772	2021	Elston, D.
Benholm, fen at Annie's Dam	NO801717	2003	Welch, D.

**M259 *Carex riparia* Curtis****Greater Pond-sedge****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1835 to 2019**Habitat** Tall, marshy grassland.

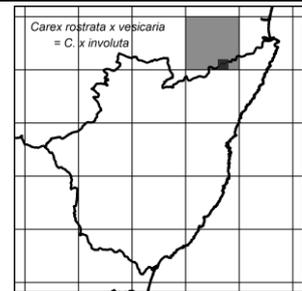
**Commentary** Robust stand-forming perennial, the long and broad W-shaped leaves having a distinctive cell-like pattern immediately above and below the join with the stems, the rather broad female spikes are positioned below the male spikes which have pointed glumes. Locally rare and believed long-extinct until rediscovered in 2019, it is unclear whether this new site is ultimately derived from planted material. Elsewhere a lowland plant, widespread and frequent in the south, but local in Scotland with rather few recent records of unplanted populations north of Dundee, the closest including Morton Lochs (Fife) and a very large stand at and upstream of the mouth of the Water of Philorth (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, Fasque, marsh below loch	NO64907463	2019	Elston, D.
<i>St Cyrus</i>	NO76	1835-1845	New Statistical Account
<b>INTRODUCED / PLANTED</b>			
Nigg, St Fittick's Park, marsh, planted	NJ96130472	2021	Elston, D.

**M260 *Carex rostrata x vesicaria* = *C. x involuta* (Bab.) Syme****A Hybrid Sedge****Local Origin** Native x Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/2**Earliest to Latest Record (or start and end of intervals)** 2004 to 2005**Habitat** Marshy ground.

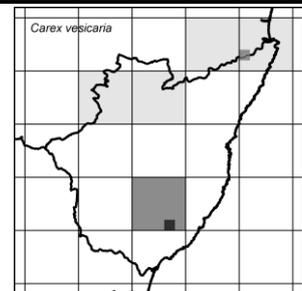
**Commentary** Rhizomatous stand-forming perennial, the yellowish-green flat or W-shaped leaves having stomata on both upper and lower surfaces, the sterile inflorescence with all female spikes below the male spikes occupying only the top quarter of the erect stems. Locally rare, only known from one site which has changed greatly and so it may no longer be present. Elsewhere very local, mostly in the west and north: whilst one parent species, *Carex rostrata* (Bottle Sedge), is common in north east Scotland the other parent, *Carex vesicaria* (Bladder Sedge), is rare with only small populations at one known site (Whitewater Moss) in Kincardineshire and two (at Kincardine O'Neil and Crathie) in South Aberdeenshire), limiting the opportunities for this hybrid to form again.



Location	Grid Ref	Year	Recorder / Reporter
Kingcausie Island, pool in Salix woodland	NJ867011	2004(2005)	Waddell, J.; Madden, D.

**M261 *Carex vesicaria* L.****Bladder-sedge****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 2020**Habitat** Mesotrophic fens.

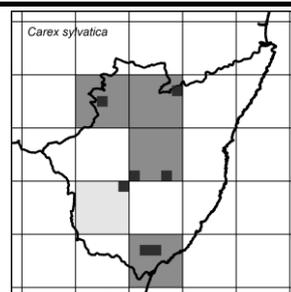
**Commentary** Tufted or stand-forming perennial, the stems weakly ascending, the leaves yellow-green, plicate with a long-pointed ligule, the inflorescence with male spikes above the female, the latter on rather long branches, the utricles each tapered gradually into a long beak, making a broad angle with the rachis and all arranged in distinct rows. Locally rare. long lost from along the River Dee but rediscovered as a single patch on Whitewater Moss in 2020. Elsewhere widespread but infrequent, recorded recently near Brechin and in Glen Clova (Angus), near Potterton (South Aberdeenshire), also still present at Crathie (South Aberdeenshire) from where it could recolonise the River Dee corridor.



Location	Grid Ref	Year	Recorder / Reporter
<b>Garvock, Whitewater Moss</b>	<b>NO77037049</b>	<b>2020</b>	<b>Elston, D.</b>
<i>Kingcausie</i>	<i>NJ80</i>	<i>1850</i>	<i>Boswell-Syme, J.</i>
<i>Banchory-Devenick, R Dee bank near Morrison`s bridge</i>	<i>NJ9002</i>	<i>1849</i>	<i>Macgillivray, P.</i>
<i>Banchory, banks of R Dee [perhaps in NO69]</i>	<i>NO79</i>	<i>1820-1859</i>	<i>Adams, F.</i>

**M262 *Carex sylvatica* Huds.****Wood-sedge****Local Origin** Native**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/5/5**Earliest to Latest Record (or start and end of intervals)** 1884 to 2023**Habitat** Moist, shady sites on rich soils.

**Commentary** Densely tufted perennial, the leaves yellow-green and not quite flat, the arching stems bearing pendulous, narrowly cylindrical female spikes below the more contiguous male spikes. Locally scarce, once popular amongst policy gardeners and potentially naturalised at some sites. Elsewhere widespread and mostly frequent except in upland areas the and far north of Scotland, recorded recently from nine tetrads in Angus and 16 in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, Ecclesgreig, policy woodland	NO73946610	2022	Elston, D.
St Cyrus, Lauriston Castle, policy woodland	NO75996678	2022	Elston, D.
Drumtochty, woodland	NO696799	2018(2023)	Welch, D.
Drumtochty, trackside	NO697779	2000	Welch, D.
Glenbervie, woodland by old kirkyard	NO766804	2018	Welch, D.
Durris, Woodlands	NO79639666Ø	2010	Green, I.
Blackhall, Glenbogle, woodland at roadside	NO659956	2001	Welch, D.

**M263 *Carex extensa* Gooden.****Long-bracted Sedge****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2019**Habitat** Silty grassland regularly inundated by the sea.

**Commentary** Short, loosely tufted perennial, the leaves grey-green and narrow, the stem with sheathing, very long, leaf-like bracts beneath each near-spherical female spike, the inflorescence topped with a male spike. Locally rare, only recorded recently from one site, not recorded since 1962 from other former haunts. Elsewhere widespread round the coastline, mostly frequent but local on parts of the south and east coasts, the closest recent records are from just south of Montrose (Angus) and near Loch of Strathbeg (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Mathers, saltmarsh at Milton Ness	NO77076475	2019	Elston, D.
Gourdon, coast S of	NO87	1820-1859	Stephen
Garron Point, marsh close by the sea	NO8987	1820-1859	Dickie, G.
Findon, harbour	NO99I	1962	Sommerville, A.

**M264 *Carex hostiana x demissa*****A Hybrid Sedge****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 2023 to 2023**Habitat** Flushes with sufficient base richness for the *Carex hostiana* parent.

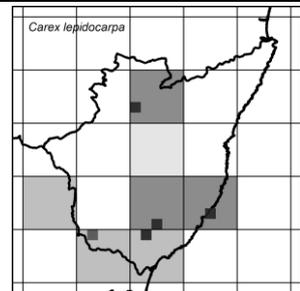
**Commentary** Short, tufted perennial, the leaves yellow-green, inflorescence comprising spikelets well spaced along the stem, female spikes below, males above, female spikes with utricles empty, the upper not expanding and so giving the spikelet a characteristic pineapple shape, on male flowers the anthers remaining hidden behind the glumes and so visible as parallel triplets when the glumes are pulled outwards. Locally rare, only recorded once but probably waiting to be discovered at other sites. Elsewhere widespread and frequent in upland areas, much more scattered in the lowlands.



Location	Grid Ref	Year	Recorder / Reporter
Barras, Bruxie Hill, flushed grassland	NO81808052	2023	Elston, D.

**M265 *Carex lepidocarpa* Tausch****Long-stalked Yellow-sedge****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/1/1**Earliest to Latest Record (or start and end of intervals)** 1950 to 2022**Habitat** Damp, base-flushed grassland.

**Commentary** Rhizomatous perennial forming small, dense tufts, the leaves mid-green, the stems erect with a male spike at the top and with several widely separated female flowering spikes below, each having a leaf-like bract, the upper part of the lowest utricles reflexed downwards from about half way. Locally scarce, due both to the paucity of base-rich habitats and to the strict interpretation of the boundary between this species and *Carex demissa*, not recorded recently from some former sites. Elsewhere widespread, most frequent in hill areas in the north and west, apparently lost from many sites away from its core range, apparently much more frequent in Angus (47 tetrads with recent records) and South Aberdeenshire (48 such tetrads) than Kincardineshire.



Location	Grid Ref	Year	Recorder / Reporter
Garvock, West Bradieston SSSI, flush	NO72796853	2021	Elston, D.; Peaker, A.; Blow, C.
Garvock, N of St James's Lochs	NO74547167	2014	Jensen, E.
Inverbervie, coastal grassland	NO84427310Ø	2011	Green, I.
Tilquhillie, Craig of Affrusk, flush by Glack's Well	NO71479371	2020	Elston, D.; Cox, J.
Strachan, marsh near Eslie	NO71479202	2022	Elston, D.
Fettercairn, wooded gorge of R North Esk	NO57SE	1982	Bayne, D.
Fettercairn, Edzell Airbase (tetrad)	NO66J	1988	Noltie, H.; Pritchard, J.
Glenbervie (hectad)	NO78	1950-1960	

**M266 *Carex viridula* Michx.****Small-fruited Yellow-sedge****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2019 to 2019**Habitat** Damp grassland by the sea shore.

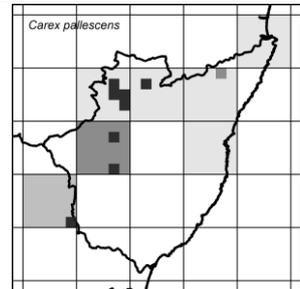
**Commentary** Short perennial forming small but dense tufts, the leaves yellow-green, the sub-erect stems bearing a small cluster of female spikes, each above a leaf-like bract and composed of densely-packed, rounded utricles, topped by a single, very short-stalked, male spike. Locally rare, only known as a small population at one site discovered in 2019. Elsewhere widespread and generally frequent in on coasts in the north and west, otherwise local, the closest recent records are from near Newburgh (South Aberdeenshire) to the north and single site near Montrose (Angus) to the south.



Location	Grid Ref	Year	Recorder / Reporter
Altens, perched saltmarsh	NJ96590301	2019(2023)	Loizou, T.

**M267 *Carex pallescens* L.****Pale Sedge****Local Origin** Native**National Status** -, -, -**Local Status** LS; 8 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/6/6**Earliest to Latest Record (or start and end of intervals)** 1820 to 2021**Habitat** Damp grassland or open woodland with few or no livestock.

**Commentary** Perennial appearing as small groups of plants, the stems erect, bearing leaves that are soft and yellow-green, the shortly-stalked female spikes clustered and a very pale green, below a single male spike itself overtopped by leaf-like bracts. Locally scarce, almost entirely in the River Dee catchment, long lost from some lowland areas. Elsewhere widespread and frequent except in some lowland areas, recently recorded from 34 tetrads in Angus and 36 in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, wooded gorge of R North Esk	NO59447189	2019	Elston, D.
Glensaugh, grassland by Slack Burn	NO67308021	2019	Elston, D.
Glen Dye, flush E of Heatherhaugh	NO66598711	2020	Elston, D.
Strachan, Blackness, flushed grassland under birch	NO69139302	2021	Elston, D.
Auchattie, grassland by R Dee	NO689955	2001	Welch, D.
Blackhall, by R Dee	NO67969595Ø	2006	Green, I.
Blackhall Forest, clearing & track	NO68239526Ø	2006	Green, I.
Crathes Castle, grounds	NO732967	2004	Watt, T.
Stonehaven (hectad)	NO88	1950-1960	
Nigg Parish	NJ90	1880-1919	Trail, J.
Kingcausie, Corbie Den, upper part	NO89U	1820-1859	Dickie, G.
Maryculter Parish [perhaps in NJ80]	NO89	1880-1919	Trail, J.

**M268 *Carex bigelowii* Torr. ex Schwein.****Stiff Sedge****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1970 to 2018**Habitat** Montane heath.

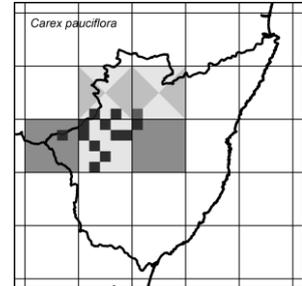
**Commentary** Lawn-forming perennial, the leaves apparently basal and grey-green with stomata only on the underside, the stems stiffly erect and bearing near its tip a small cluster of spikes, those below female, the top one male. Locally rare, only known from the summit of Mount Battock where it is one of the dominant species over quite a large area. Elsewhere widespread and frequent near mountain summits including in Angus and South Aberdeenshire, found at lower altitudes in north-west Scotland.



Location	Grid Ref	Year	Recorder / Reporter
Mount Battock, extensive in wind-blasted heath	NO55048444	2018	Elston, D.

**M269 *Carex pauciflora* Lightf.****Few-flowered Sedge****Local Origin** Native**National Status** -, -, -**Local Status** LS; 10 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Short vegetation on very wet, peaty soil.

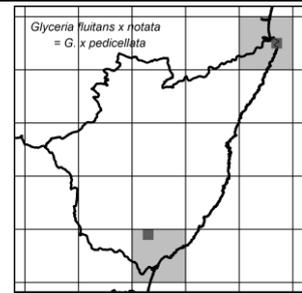
**Commentary** Short perennial, the leaves narrow and green, the short erect stem terminating in a single loose spike, the male flowers at the top, the female flowers arising directly from the stem maturing to have pale, narrow, almost horizontally-pointing utricles. Locally scarce, excepting one old record only known from hill areas south west of Banchory. Elsewhere widespread and frequent in acid areas north of the Highland Boundary Fault including the hills of Angus and South Aberdeenshire, apparently becoming lost from some places outside its core range.



Location	Grid Ref	Year	Recorder / Reporter
Strachan, mire south of Midtown	NO7189	2016	Elston, D.
Strachan, Templeton, valley bog with Myrica	NO67889119	2007	Welch, D.
Strachan, mire near Cuttie's Wood	NO63299022	2020	Elston, D.
Clachnaben	NO61598778	2022	Peaker, A.; Blow, C.
Strachan, flushes S of Kerloch Hill	NO68858644	2021	Elston, D.
Glen Dye, in flush E of Heatheryhaugh	NO66738708	2020	Elston, D.
Glen Dye, flush on low ground below Hill of Duclash	NO63728582	2022	Elston, D.; Peaker, A.
Glen Dye, Kircram, wet patch in heathland	NO65398288	2022	Elston, D.
Cairn o' Mount, Meluncart, SW of	NO62488118	2022	Elston, D.
Mount Battock, saddle mire near Fowls Heugh	NO57438687	2021	Elston, D.
Strachan, marshes at Midtown	NO705909	1970-1979	Welch, D.
Durris, Cairn-mon-earn	NO79	1820-1859	Stephen

**M270 *Glyceria fluitans x notata* = *G. x pedicellata* F.Towns.****Hybrid Sweet-grass****Local Origin** Native**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1995 to 1997**Habitat** Marshy grassland and pond margins with some base richness.

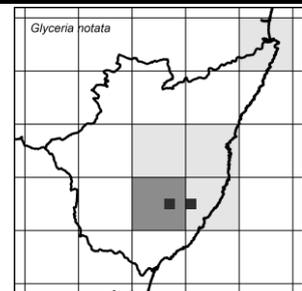
**Commentary** Large loosely tufted perennial, the stems slightly spongy, ultimately erect but without keeled sheaths, the leaves broad with long, triangular ligules, the panicles large and open, comprising cylindrical, infertile spikelets that persist on their branches long after flowering. Locally with no recent records, only recorded twice. Elsewhere widespread but very infrequent in lowland areas, following the distribution of the *Glyceria notata* (Plicate Sweet-Grass) parent, very local in Scotland with only two recent records north of the River Forth.



Location	Grid Ref	Year	Recorder / Reporter
Nigg Bay, stream outflow at shore	NJ965047	1997	Welch, D.
Garvock Hills, pool edge	NO7368	1995	Welch, D.

**M271 *Glyceria notata* Chevall.****Plicate Sweet-grass****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1880 to 2023**Habitat** Marshy grassland and pond margins on rich soils.

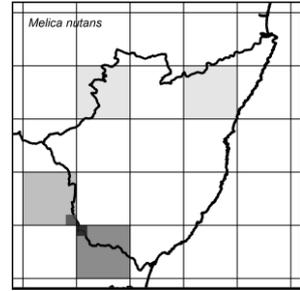
**Commentary** Loosely tufted perennial, the stems spongy, ultimately erect and with keeled sheaths, the leaves broad with a wide ligule, the panicles large and open, comprising cylindrical spikelets with rather toothed lemmas. Locally rare, only recorded on six occasions all from different localities. Elsewhere widespread and frequent in lowland areas from Fife & Kinross southwards, very local further north the closest recent records being from Glen Clova/Glen Moy and near Lunan Bay (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Arbuthnott, pool grazed field by Bervie Water	NO80067446	2018	Elston, D.
Mill of Garvock, wet grassland by Bervie Water	NO77317515	2023	Elston, D.
Catterline	NO87	1903	Trail, J.
Stonehaven (hectad)	NO88	1950-1960	
Glenbervie (hectad)	NO78	1950-1960	
Nigg Parish, ditches near Loch of Loirston	NJ90	1880-1919	Trail, J.

**M272 *Melica nutans* L.****Mountain Melick****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2010**Habitat** Damp, shady places on moderately basic soils.

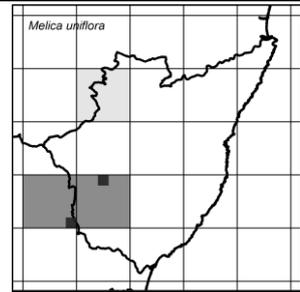
**Commentary** Rhizomatous perennial forming small, open patches, the stems erect, the leaves soft and shortly hairy, the panicles unbranched with large, dark spikelets in a vertical row on one side of the stem. Locally rare, much reduced and apparently now restricted to the gorge of the River North Esk. Elsewhere a species associated with high ground in the north and west, apparently now absent from many former sites but with populations upstream in Glen Esk (Angus) which may have given rise to our plants and on Deeside (South Aberdeenshire) which may lead to plants being found again in the Banchory area.



Location	Grid Ref	Year	Recorder / Reporter
<b>Fettercairn, woodland by R North Esk opposite Edzell</b>	<b>NO602690</b>	<b>2010</b>	<b>Green, I.</b>
Fettercairn, wooded gorge of R North Esk	NO5971	1987	Averis, B.
Strachan to Inchmarlo (hectad)	NO69	1964	Sommerville, A.
Banchory [perhaps in NO79]	NO69	1820-1859	Adams, F.
Maryculter Parish [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Kingcausie, Corbie Den	NO89	1820-1859	Dickie, G.

**M273 *Melica uniflora* Retz.****Wood Melick****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2018**Habitat** Damp, shady places on moderately basic soils.

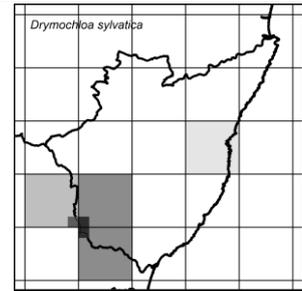
**Commentary** Rhizomatous perennial forming open patches with a delicate look, the stems erect, the leaves soft and shortly hairy, the panicles diffuse with small, one-flowered spikelets. Locally rare, the population by the river North Esk is very small whereas the population by Clattering Brig is much larger. Elsewhere widespread and frequent in the south, becoming more scattered and often apparently absent from former sites further north, the closest sites with recent records are the Den of Airlie (Angus) and Craighall Gorge (East Perthshire).



Location	Grid Ref	Year	Recorder / Reporter
<b>Fettercairn, on rocks in wooded gorge of R North Esk</b>	<b>NO59957104</b>	<b>2018</b>	<b>Elston, D.</b>
<b>Fetterciarn, Clattering Brig, gorge upstream of</b>	<b>NO65847854</b>	<b>2018</b>	<b>Elston, D.</b>
Strachan to Inchmarlo (hectad)	NO69	1930-1969	
Inchmarlo, woods	NO69	1820-1859	Adams, F.

**M274 *Drymochloa sylvatica* (Pollich) Holub****Wood Fescue****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1820 to 2017**Habitat** Ungrazed, ancient woodland or ravines.

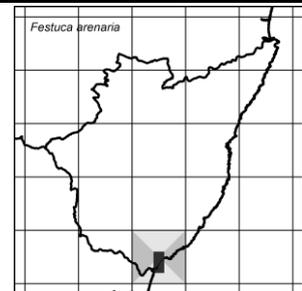
**Commentary** Perennial forming loose tufts, the stems rather tall, hairless, the leaves flat, wide and without auricles, the panicle open but swept to one side, the spikelets rather small. Locally rare, long lost from Dunnottar but faring well in the gorge of the River North Esk. Elsewhere very local in the north and west, apparently lost from many former sites, recorded recently in Angus only by the River Ericht north of Blairgowrie and in Moray by the River Findhorn.



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, wooded gorge of R North Esk	NO60227059	2017	Elston, D.
Dunnottar, about	NO88	1820-1836	Murray, A.

**M275 *Festuca arenaria* Osbeck****Rush-leaved Fescue****Local Origin** Native**National Status** -, NS, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1944 to 2023**Habitat** Coastal sands.

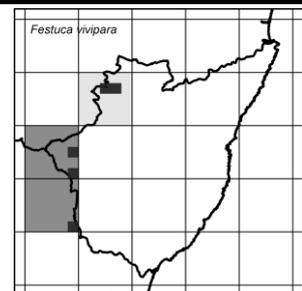
**Commentary** Perennial with rhizomes producing scattered, erect stems, the leaves stiff and often inrolled, the panicle rather open with large spikelets. Locally rare and only recorded from St Cyrus. Elsewhere a widespread coastal species, rather frequent in the east, otherwise local, recently recorded along the Angus coast from Kinnabre to Montifieth, also from Aberdeen (South Aberdeenshire) to Sands of Forvie (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, dunes	NO7463	2008(2023)	Smedley, M.

**M276 *Festuca vivipara* (L.) Sm.****Viviparous Sheep's-fescue****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/3**Earliest to Latest Record (or start and end of intervals)** 1950 to 2022**Habitat** Upland heaths, riverine rocks.

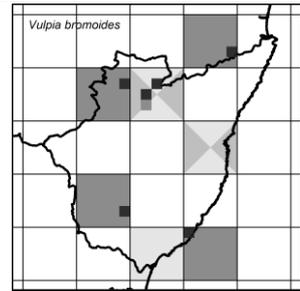
**Commentary** Short, densely tufted perennial, the leaves very narrow, the stems erect, the panicle with rather few spikelets in which the flowers develop into new plants. Locally scarce, although population near Sandy Hill is large others are small and may not in themselves be self-sustaining. Elsewhere widespread and frequent in the north-west, particularly in upland areas including in Angus and South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, wooded gorge of R North Esk	NO59947107	2018	Elston, D.
Glen Dye, heathland by Kettock Burn	NO59648089	2021	Elston, D.
Glen Dye, less acid ground below Hill of Badymicks	NO580840	2022	Elston, D.
Blackhall, Glenbogle, S bank of R Dee	NO66289601Ø	2012	Green, I.

**M277 *Vulpia bromoides* (L.) Gray****Squirreltail Fescue****Local Origin** Native**National Status** -, -, -**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/3**Earliest to Latest Record (or start and end of intervals)** 1950 to 2022**Habitat** Dry, often sandy, places, waste ground.

**Commentary** Annual, the leaves narrow, the panicle contracted and fully exerted from the uppermost leaf sheath, the spikelets with long awns on the lemmas, the lower glume half or more as long as upper glume. Locally scarce, mostly on Deeside. Elsewhere widespread, frequent in lowland areas though less so in Scotland, where it is apparently becoming lost from some areas but also making gains, recently recorded from five tetrads in Angus and nine in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Benholm, semi-natural grassland	NO808681	2015	Welch, D.
Laurencekirk, farmyard at Bent	NO69177263	2022	Elston, D.
Ardoe, concrete platform by R Dee	NJ895022	2011	Welch, D.
Crathes, verge at car-park	NO74099618	2016	Welch, D.
Banchory, Lochton of Leys, entrance to farm shed	NO69639779	2021	Welch, D.
Tilquhillie, farmyard entrance at Balbridie	NO735957	2021	Welch, D.
Stonehaven (hectad)	NO88	1987-1999	
<i>St Cyrus</i>	<i>NO76</i>	<i>1964</i>	<i>Ribbons, B.</i>

**M278 *Vulpia myuros* (L.) C.C.Gmel.****Rat's-tail Fescue****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1995 to 2017**Habitat** Dry, disturbed, often sandy places, waste ground.

**Commentary** Annual, the leaves narrow, the panicle contracted and partly hidden in the uppermost leaf sheath, the spikelets with long awns on the lemmas, the lower glume less than half as long as upper glume. Locally rare, only recorded from the car park at Stonehaven railway station where it was much visited. Elsewhere a lowland species, widespread and frequent in the south but local in Scotland and not recorded recently in either Angus or South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Stonehaven, railway car park	NO864862	2017	Welch, D.

**M279 *Puccinellia maritima* (Huds.) Parl.**

Common Saltmarsh-grass

Local Origin Native

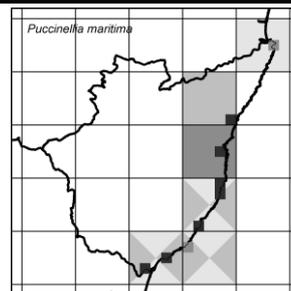
National Status -, -, -

Local Status LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/4/3

Earliest to Latest Record (or start and end of intervals) 1820 to 2020

Habitat Silty ground regularly inundated by the sea.

**Commentary** Mat-forming stoloniferous perennial, the leaves grey-green, the stems usually horizontal, the panicle open or contracted, the spikelets cylindrical with long lemmas and anthers 2mm long. Locally scarce, recently recorded from St Cyrus to Muchalls, apparently lost from further north though perhaps under recorded as difficult to distinguish from *Puccinellia distans* when not in flower. Elsewhere widespread and frequent round the entire coastline where suitable habitat exists, recorded recently from nine tetrads in Angus but none from the sandy shoreline of South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus NNR	NO73776246Ø	2010	Haynes, T.; Haynes, R.
Mathers, saltmarsh at Milton Ness	NO77116479	2014	Smedley, M.
Gourdon (tetrad)	NO87F	2017	Elston, D.
Catterline, Trelong Bay	NO87457854Ø	2010	Green, I.
Dunnottar, Castle Haven, shore	NO87998429	2020	Elston, D.
Muchalls, perched saltmarsh on shore	NO89909082	2020	Elston, D.
Benholm	NO86E	1997	Welch, D.
Johnshaven, coast at Brotherton	NO8067	1835-1845	New Statistical Account
Cove Bay	NJ90	1820-1859	Dickie, G.
Nigg, at Girdle Ness	NJ9705	1820-1859	Dickie, G.

**M280 *Puccinellia distans* subsp. *borealis* (Holmb.) W.E.Hughes**

Reflexed Saltmarsh-grass

Local Origin Native

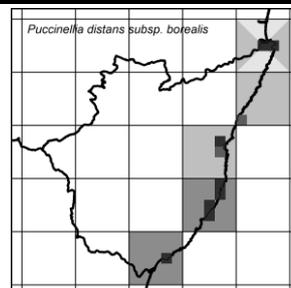
National Status -, NS, -

Local Status LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/3

Earliest to Latest Record (or start and end of intervals) 1971 to 2021

Habitat Rocky platforms within reach of sea spray.

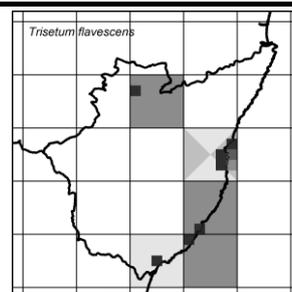
**Commentary** Perennial, forming small tufts, the leaves grey-green, the stems usually horizontal to vertical, the panicle tightly contracted, the spikelets cylindrical, with short lemmas and anthers 1mm long. Locally scarce, may be found anywhere along the coast with suitable habitat, has yet to colonise road verges in the manner of *Puccinellia distans* subsp. *distans*. Elsewhere very local, only in Scotland, mostly in the north and east and rarely inland. Some coastal records for *P. distans* not identified to subspecies level which may be subsp. *borealis* are listed below and included in the map.



Location	Grid Ref	Year	Recorder / Reporter
<b><i>Puccinellia distans</i> subsp. <i>borealis</i> (-, NS, -)</b>			
Nigg, Old South Breakwater at Girdle Ness	NJ96370573	2016(2020)	Smedley, M.
Stonehaven, Cowie, road verge near sea	NO879866	2015	Welch, D.
Catterline, on shore	NO870778	2020	Elston, D.
Inverbervie, Craig David, coast near King's Step	NO84107261	2021	Elston, D.
Mathers, saltmarsh at Milton Ness	NO77116479	2014	Smedley, M.
<b><i>Puccinellia distans</i> (-, -, -)</b>			
Nigg Bay	NJ966044	2001	Welch, D.
Kinneff, coast	NO85607442Ø	2011	Green, I.
Muchalls, S of	NO99A	1988	Birse, E.L.; Birse, E.M.

**M281 *Trisetum flavescens* (L.) P.Beauv.****Yellow Oat-grass****Local Origin** Native**National Status** -, -, -**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/6/8**Earliest to Latest Record (or start and end of intervals)** 1950 to 2023**Habitat** Unimproved grassland on slightly basic soils.

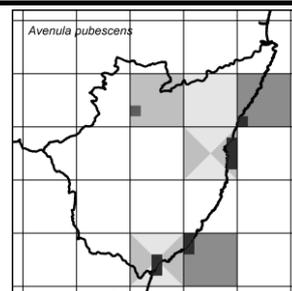
**Commentary** Perennial occurring as diffuse patches, the leaves and sheaths hairy, the stems erect, the panicle diffuse or contracted, the spikelets narrow, shiny and yellowish with long awns. Locally scarce and mostly coastal, perhaps a recent arrival having not been recorded prior to 1950. Elsewhere widespread and frequent in the south, in Scotland mostly in the east, local and coastal north of Dundee, not recorded recently from many former sites and only from two tetrads in Angus and one in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, steep grassland	NO757648	2011	Welch, D.
Haughs of Benholm	NO81296856Ø	2011	Green, I.
Benholm, coastal grassland	NO822702	2002	Welch, D.
Dunnottar, Castle Haven, cliff grassland	NO87908425	2020	Elston, D.
Stonehaven, cliffs N of Cowie	NO88068686	2018(2023)	Elston, D.
Loch of Leys	NO70779776Ø	2006	Green, I.

**M282 *Avenula pubescens* (Huds.) Dumort.****Downy Oat-grass****Local Origin** Native**National Status** -, -, -**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/8/6**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Unimproved grassland on slightly basic soils.

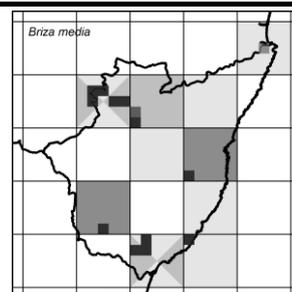
**Commentary** Perennial occurring as diffuse patches, the leaves broad and hairy, the stems erect and quite tall, the spikelets large, narrow, slightly shiny and with long awns. Locally scarce, now apparently entirely coastal. Elsewhere widespread, frequent in some areas but local or absent in others and not recently recorded from many former sites, recorded recently from 11 tetrads in Angus and eight in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus NNR, dune grassland	NO744634	2022	Elston, D., Alampo, T. <i>et al.</i>
St Cyrus SSSI, grassland along disused railway line	NO74306385	2022	Elston, D.
Benholm, semi-natural grassland	NO807679	2015	Welch, D.
Dunnottar, coastal grassland	NO88008432	2018	Elston, D.
Stonehaven, cliffs N of Cowie	NO88368714	2018	Elston, D.
Muchalls, S of (tetrad)	NO99A	2004	Welch, D.
Tilquhillie, Craig of Affrusk	NO7192	1973	
Dunnottar, at Thornyhive	NO8882	1820-1859	Dickie, G.
Muchalls, coast [perhaps in NO99]	NO89	1820-1859	Dickie, G.

**M283 *Briza media* L.****Quaking-grass****Local Origin** Native**National Status** -, -, -**Local Status** LS; 9 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/5/5**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Unimproved grasslands, either basic or slightly flushed.

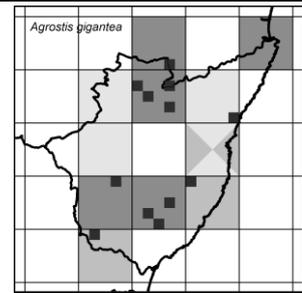
**Commentary** Rhizomatous perennial with shoots at intervals, the stems erect, the leaves a slightly blueish green, the panicle very open with fine, wavy branches bearing large, flat, rounded spikelets that quiver in the breeze. Locally scarce, greatly diminished at least in part due to agricultural intensification. Elsewhere widespread, mostly frequent but local in north, west and north-east Scotland, frequent in upland areas of Angus and South Aberdeenshire but local or absent from lowland parts.



Location	Grid Ref	Year	Recorder / Reporter
Barras, Bruxie Hill, flushed grassland	NO81798051	2023	Elston, D.
Benholm, semi-natural grassland	NO808680	2014	Welch, D.
Garvock, West Bradieston SSSI, wet grassland	NO73216879	2021	Elston, D.; Peaker, A.; Blow, C.
Esslie Moss, open area on NE edge of	NO64747092	2020	Elston, D.
Strachan, marsh near Eslie	NO71819191	2022	Elston, D.
Banchory, near R Dee by golf course	NO6895	2010	Welch, D.
Woodend, Cairnton, R Dee north bank	NO644963	2011(2023)	Welch, D.
Blackhall, by R Dee	NO67969595Ø	2006	Green, I.
Woodend, by R Dee, north bank	NO63319581	2023	Elston, D.
Tilquhillie, Craig of Affrusk	NO7192	1973	
<i>St Cyrus</i>	NO76	1820-1859	Stephen
<i>Arbuthnott [perhaps in NO77]</i>	NO87	1820-1859	Chrystall, L.
<i>Inverbervie (hectad)</i>	NO87	1950-1969	
<i>Glenbervie (hectad)</i>	NO78	1950-1969	
<i>Maryculter (hectad)</i>	NO89	1950-1960	
<i>Torry, S bank R Dee at Morrison`s Bridge</i>	NJ9404	1849	Macgillivray, P.
<i>Banchory, side of R Feugh [perhaps in NO79]</i>	NO69	1820-1859	Adams, F.

**M284 *Agrostis gigantea* Roth****Black Bent****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LS; 9 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/6/4**Earliest to Latest Record (or start and end of intervals)** 1882 to 2022**Habitat** In or close to disturbed ground with agricultural activity.

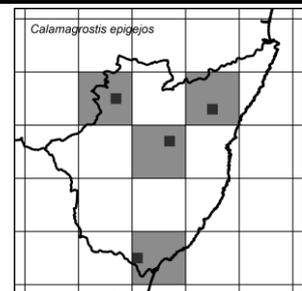
**Commentary** Rhizomatous perennial, the leaves rather broad with a long, blunt ligule, the stems ultimately erect, the panicle diffuse with small, one-flowered spikelets. Locally scarce, apparently disappeared from some areas but possibly under-recorded. Widespread and frequent in most lowland areas except west and north Scotland, recorded recently from three tetrads in Angus and nine in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Banchory, Ley	NO71909773Ø	2006	Green, I.
Tilquhillie, Knappach	NO72979537Ø	2006	Green, I.
Durris Forest, track near Cairn-mon-earn	NO7792	2022	Elston, D.
Durris, field by church	NO77019662Ø	2010	Green, I.
Aberdeen (hectad)	NJ90	2000-2009	Welch, D.
Glensaugh, by Slack Burn	NO66877905Ø	2012	Green, I.
Fettercairn, Edzell Airbase (tetrad)	NO66J	2004	Welch, D.
Laurencekirk, NE of, field margin	NO7272	2022	Elston, D.
Garvock (tetrad)	NO77K	2018	Elston, D.
Stonehaven (hectad)	NO88	1987-1999	
Inverbervie (hectad)	NO87	1987-1999	
Bridge of Dye (hectad)	NO68	1950-1969	
Strachan to Inchmarlo (hectad)	NO69	1957	Sommerville, A.
Maryculter (hectad)	NO89	1882	Syme, J.

**M285 *Calamagrostis epigejos* (L.) Roth****Wood Small-reed****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/3**Earliest to Latest Record (or start and end of intervals)** 2001 to 2022**Habitat** Tall, unmanaged grassland.

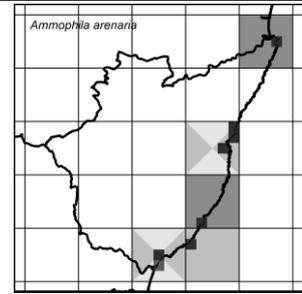
**Commentary** Tall perennial forming large stands, the stems erect, the leaves hairless with a strong mid-rib, the panicle dense but irregular and persistent until spring, the one-flowered spikelets having lemmas with long hairs. Locally scarce, at scattered sites, two of which have small populations and so could be found at additional sites. Elsewhere widespread and most frequent in the south-east, in Scotland local, recorded recently from small clusters of sites round Brechin (Angus), Aberdeen and Deeside (South Aberdeen).



Location	Grid Ref	Year	Recorder / Reporter
Auchattie, forest edge below Scolty Hill	NO67719468	2021	Elston, D.
Netherley, trackside by ditch	NO85089378	2015	Welch, D.
Fetteresso Forest, floodplain NW of Hill of Trusta	NO76518726	2022	Elston, D.
Marykirk, Hill of Canterland	NO702652	2012	Green, P.

**M286 *Ammophila arenaria* (L.) Link****Marram****Local Origin** Native**National Status** -, -, -**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/5/6**Earliest to Latest Record (or start and end of intervals)** 1948 to 2022**Habitat** Coastal sands.

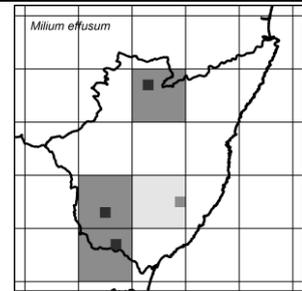
**Commentary** Rhizomatous stand-forming and dune-building perennial, the stems erect, the leaves greyish-green and often inrolled, the panicles dense and cylindrical with spikelets individually quite small and evenly distributed in all directions. Locally scarce but occupying most of the suitable habitat and with a large population at St Cyrus. Elsewhere widespread and frequent round the entire coastline.



Location	Grid Ref	Year	Recorder / Reporter
Torry, below Battery	NJ96690572Ø	2019	Loizou, T.
Stonehaven, seafront	NO8785	2013	Meek, E.
Garron Point, Skatie shore	NO8987	2022	Elston, D., Blow, C.; Peaker, A.
Gourdon, waste ground	NO82987086	2021	Elston, D.
Haughs of Benholm	NO80856792Ø	2011	Green, I.
St Cyrus, grassy area behind dunes	NO7464	2002	Gimingham, C.

**M287 *Milium effusum* L.****Wood Millet****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/3**Earliest to Latest Record (or start and end of intervals)** 1820 to 2022**Habitat** Open woodland or woodland edge.

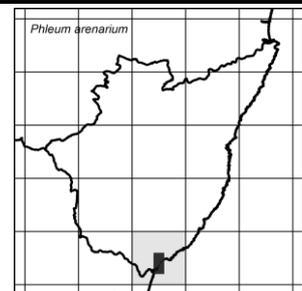
**Commentary** Perennial comprising loose clusters of tall, erect stems, the leaves flat and broad, the panicle diffuse with long branches, the spikelets small and each containing a single floret. Locally rare, potentially naturalised in policy woodlands, recorded at three sites in 2019 after a gap of over 150 years. Elsewhere widespread and frequent in lowland areas up to the Scottish Central Belt, further north more local reaching Golspie (East Sutherland), recorded recently from four tetrads in Angus and four in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Marykirk, woodland edge by track at Balmakewan	NO66316698	2022	Elston, D.
Fettercairn, woodland by Crichtie Burn	NO65187355	2019	Elston, D.
Crathes Castle, grounds	NO733969	2019	Elston, D.
Arbuthnott, shady bank below Arbuthnott House	NO7974	1820-1859	Chrystall, L.

**M288 *Phleum arenarium* L.****Sand Cat's-tail****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2023**Habitat** Sandy ground at the coast.

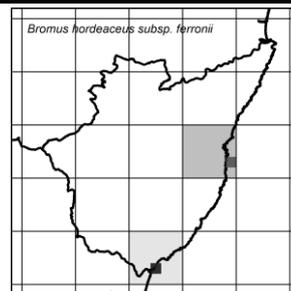
**Commentary** Short annual, the stems erect, the leaves with short blades and an inflated upper sheath, the panicle dense, ovate-cylindrical, the florets having glumes that are pointed not awned at the tip. Locally rare, long known from St Cyrus but only intermittently recorded there. Elsewhere coastal, infrequent, only one recent record (Findhorn in Moray) to the north and with a cluster of recent records from Montrose (Angus) to St Andrews (Fife & Kinross) to the south.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus NNR, open dune grassland	NO75336454	2023	Elston, D.; Wild Flower Society

**M289 *Bromus hordeaceus* subsp. *feronii* (Mabille) P.M.Sm.****Least Soft-brome****Local Origin** Native**National Status** -, NS, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1948 to 2006**Habitat** Coastal cliffs or grassland.

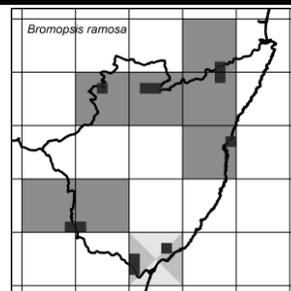
**Commentary** Short hairy annual, the stems erect or ascending, the leaves linear, the inflorescence a stiff panicle with short branches, the spikelets with about 8-10 flowers each with an outwardly curving awn. Locally rare, but may be under recorded and so coastal *Bromus hordeaceus* plants are worthy of close inspection. Elsewhere very scarce away from the south-west, the closest recent records being from Slains (North Aberdeenshire) and the south-facing Firth of Forth coast (Fife).



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, Old Red Sandstone cliffs	NO747636	2006	Welch, D.
Dunnottar, rock ledge	NO881838	1993	Welch, D.

**M290 *Bromopsis ramosa* (Huds.) Holub****Hairy-brome****Local Origin** Native**National Status** -, -, -**Local Status** LS; 8 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 8/10/10**Earliest to Latest Record (or start and end of intervals)** 1820 to 2020**Habitat** Old, open broadleaved woodland.

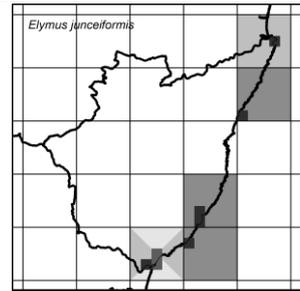
**Commentary** Perennial forming small tufts, the stems tall, hairy and erect, the leaves linear and hairy with auricles at the base, the panicles open with long pendent branches in whorls, the spikelets large with long awns. Locally scarce but widespread, the longest-known sites all being in the south-east. Elsewhere widespread and frequent in lowland areas, but apparently lost from many sites in the northern half of Scotland, recorded recently from five tetrads in Angus but none in South Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Den Finella, grassland at margin	NO77276624	2020	Elston, D.
Morphie, by R North Esk	NO71696214Ø	2012	Green, I.
Den of Morphie	NO70776430Ø	2012	Green, I.
Fettercairn, wooded gorge of R North Esk	NO59817124	2019	Elston, D.
Crathes Castle, grounds	NO74579719Ø	2010	Loizou, T.
Inchmarlo, woodland belt	NO653971	2011	Welch, D.
Kingcausie, woodland	NJ862000	2008	Welch, D.
Stonehaven, N of, coastal grassland	NO880868	2014	Welch, D.
Garvock [perhaps in NO77]	NO76	1820-1859	Stephen
St Cyrus	NO76	1839	Kerr, A.

**M291 *Elymus junceiformis* (Å.Löve & D.Löve) Hand & Buttler****Sand Couch****Local Origin** Native**National Status** -, -, -**Local Status** LS; 6 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/4/4**Earliest to Latest Record (or start and end of intervals)** 1950 to 2020**Habitat** Unconsolidated sand, often the plant growing closest to the sea.

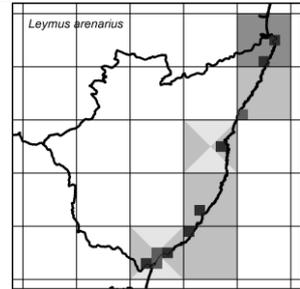
**Commentary** Rhizomatous perennial forming large open patches, the stems arching sideways, the glaucous leaves either flat or inrolled, the spikelets large and widely spaced on a rachis that breaks up at maturity. Locally scarce, unknown until the 1950s but now at scattered sites from Aberdeen to St Cyrus where there is a large population. Elsewhere frequent round almost the entire coastline.



Location	Grid Ref	Year	Recorder / Reporter
Torry, below Battery	NJ96690572Ø	2019	Loizou, T.
Muchalls, amongst stones on shore	NO90249162	2020	Elston, D.
Inverbervie, Kinghornie, shore	NO839725	2005	Welch, D.
Gourdon, shore	NO83047085	2020	Elston, D.; Cox, J.
Johnshaven, shore	NO806677	2014	Smedley, M.
St Cyrus NNR, dune edge	NO738625	2020	Elston, D.

**M292 *Leymus arenarius* (L.) Hochst.****Lyme-grass****Local Origin** Native**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/5/6**Earliest to Latest Record (or start and end of intervals)** 1948 to 2021**Habitat** Unstabilised dunes.

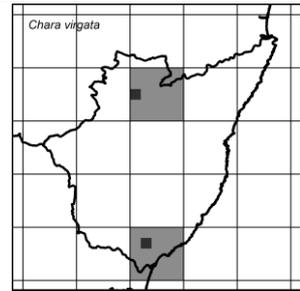
**Commentary** Rhizomatous perennial forming large stands, the stems erect, the leaves glaucous, linear but quite wide, the stems arching sideways, the spikelets large, flattened, in two opposite rows along the rachis and positioned with the broad side against the rachis. Locally scarce, unknown until 1948 but now at scattered sites from Aberdeen to St Cyrus where there is a large population. Elsewhere frequent round almost the entire coastline.



Location	Grid Ref	Year	Recorder / Reporter
Torry, below Battery	NJ96690572Ø	2019	Loizou, T.
Cove Bay, Crawpeel Shore	NJ956007	2020	Routledge, G.
Stonehaven, seafront	NO8785	2013	Meek, E.
Inverbervie, shore by minor stream	NO83287204	2021	Elston, D.
Haughs of Benholm	NO81446887Ø	2011	Green, I.
Mathers, Miltonhaven	NO77516550Ø	2010	Green, I.
St Cyrus NNR, dune edge	NO73876249	2020	Elston, D.
Muchalls, coast S of	NO9091	1988	Birse, E.L.; Birse, E.M.

**M293 *Chara virgata* Kütz.****Delicate Stonewort****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2001 to 2016**Habitat** Ponds, boggy pools.

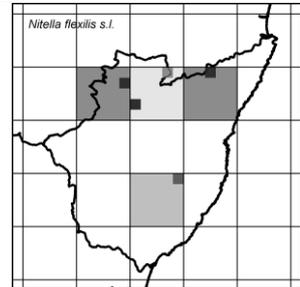
**Commentary** Tufted, submerged aquatic, the stems slender with a cortex lacking spines, the branches in whorls at the base of which only the upper ring of bracteoles is well-developed. Locally rare, only recorded twice. Elsewhere widespread but infrequent except in the north and west, recorded recently from near Aboyne (South Aberdeenshire) and Lumley Den (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Tilquhillie, recently-made lake	NO717946	2016	Welch, D.
St Cyrus, Ecclesgreig	NO732660	2001	Welch, D.

**M294 *Nitella flexilis* s.l.****A Smooth Stonewort****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1849 to 2020**Habitat** Ponds and streams.

**Commentary** Patch-forming submerged aquatic, the stems lacking a cortex, the branches in whorls, obviously forking. Locally rare, only found recently in man-made dug ponds. Elsewhere widespread but infrequent except in the north and west, recorded recently from near Aboyne and Corby Loch (South Aberdeenshire), also from Glen Esk (Angus). Only identifiable to species when fertile, our plants are almost certainly all *Nitella flexilis* s.s., the alternative species in this group (*Tolypella nidifica*, *Nitella spanioctema*) being both rare and distant.



Location	Grid Ref	Year	Recorder / Reporter
<b><i>Nitella flexilis</i> s.s. (-, -, -)</b>			
Tilquhillie, artificial pond by Glack's Well	NO714937	2020	Elston, D.; Cox, J.
Banchory, fishing pools	NO695977	2005	Welch, D.
Loch of Park	NO7698	1849	MacGillivray, P.
<b><i>Nitella flexilis</i> s.l. (-, -, -)</b>			
Drumlithie, S of, Bervie Water, +/-2.5km of Grid Ref	NO782797Ø	1981	Holmes, N.
<b>INTRODUCED / PLANTED</b>			
<b><i>Nitella opaca</i> (-, -, -)</b>			
Maryculter, peaty pool in woodland	NO857984	2020	Elston, D.

**M295 *Nitella translucens* (Pers.) C.Agardh****Translucent Stonewort****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 2013**Habitat** Ponds and lochs.

**Commentary** Patch-forming submerged aquatic, the stems lacking a cortex, the branches in whorls, not obviously forked. Locally rare, only one recent record. Elsewhere widespread and frequent in parts of the west and north, absent from much of the south and east, the closest recent records including Loch of Aboyne and Loch Kinnord (South Aberdeenshire) also near Dunkeld (East Perthshire) suggesting the species requires approximately neutral pH levels.



Location	Grid Ref	Year	Recorder / Reporter
Crathes Castle, grounds	NO7496	2013	Emes, C.; Watt, J.
Loch of Park	NO7698	1849	MacGillivray, P.

## REGISTER Part 2: taxa considered extinct in Kincardineshire excluding the critical groups of Brambles, Dandelions and Hawkweeds.

### E001 *Lycopodiella inundata* (L.) Holub

**Marsh Clubmoss**

**Local Origin** Native

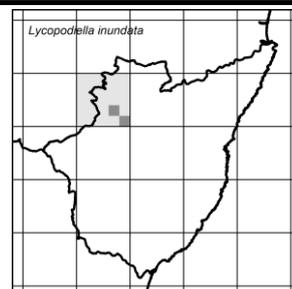
**National Status** EN, NS, SBL

**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0

**Earliest to Latest Record (or start and end of intervals)** 1870 to 1884

**Habitat** Damp, bare peat.

**Commentary** Perennial, the stems prostrate, chunky and densely clothed with short, linear leaves, the reproductive shoots erect and clothed with short, linear leaves, bearing cylindrical, rather open spore-producing cones. Locally extinct, always very rare and only ever recorded near Strachan. Elsewhere very local and much less widespread than previously, in Scotland recorded recently from few sites south-east of the Great Glen, the closest current sites are near Forres (Moray) and to the west of Callander (West Perthshire).



Location	Grid Ref	Year	Recorder / Reporter
Strachan	NO69	1884	Trail, J.; Roy, J.
Strachan, Cammie Dam	NO690919	1870-1879	Sim, J.

### E002 *Isoetes echinospora* Durieu

**Spring Quillwort**

**Local Origin** Native

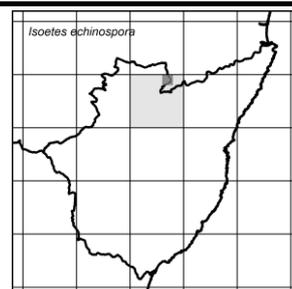
**National Status** -, -, -

**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0

**Earliest to Latest Record (or start and end of intervals)** 1850 to 1868

**Habitat** Lochs with a stony substrate and clear waters.

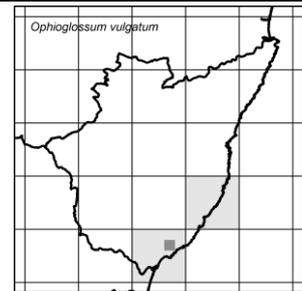
**Commentary** Rooted perennial aquatic, the leaves in a basal whorl are long, narrow, flexible, slowly-tapering with four air channels visible in section when split. Locally extinct, only ever found in the Loch of Park and lost from there in the mid to late 1800s along with several other species. Elsewhere a local species of the north and west, in Scotland recorded recently from few sites south-east of the Great Glen, the nearest recent records being from Loch of Aboyne, and Loch Callater (South Aberdeenshire), also Loch of Craiglush (East Perthshire).



Location	Grid Ref	Year	Recorder / Reporter
Loch of Park	NO7798	1868	Brown, N.

**E003 *Ophioglossum vulgatum* L.****Adder's-tongue****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1859**Habitat** Unimproved, often rather marshy grassland on rich soil.

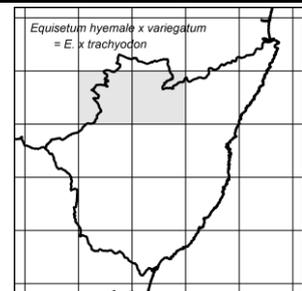
**Commentary** Short perennial, the sterile leaves held erect, single, ovate, the fertile leaves erect, narrowly cylindrical with sporangia in two parallel rows. Locally extinct, long lost from its former sites in St Cyrus and Arbuthnott parishes. Elsewhere widespread and generally frequent in the south, in Scotland most frequent near the north and west coasts with few sites in the east north of the Firth of Forth, recorded recently at both Barry Links (Angus) and Tentsmuir (Fife & Kinross) in the south and both Balmedie links (South Aberdeenshire) and Sands of Forvie (North Aberdeenshire) in the north.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, N end of Den of Jackston	NO7767	1820-1859	Stephen
Arbuthnott [perhaps in NO77]	NO87	1820-1859	Chrystall, L.

**E004 *Equisetum hyemale x variegatum* = *E. x trachyodon* A.Braun****A Hybrid Horsetail****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1877**Habitat** Basic flushes.

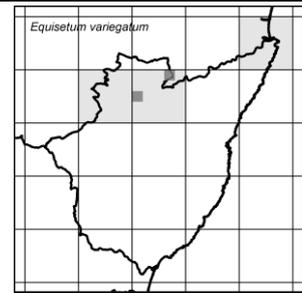
**Commentary** Rhizomatous stand-forming perennial, the stems erect and sparsely branched, each segment with pairs of rough ridges, the internodes coloured with dark and pale rings and with long teeth. Locally long extinct, only ever recorded by the River Dee near Banchory. Elsewhere a very local hybrid recorded from a few sites in the north and west, last recorded upstream along the River Dee by Potarch Bridge (South Aberdeenshire) in 2003 from where, if still present, it could spread again into Kincardineshire.



Location	Grid Ref	Year	Recorder / Reporter
Banchory, by R Dee [perhaps in NO79]	NO69	1877	Sim, J.
Banchory, along R Dee for several miles up and down	NO79	1820-1859	Brichan, J.
Banchory, along R Dee for several miles up and down	NO69	1820-1859	Brichan, J.

**E005 *Equisetum variegatum* Schleich. ex F.Weber & D.Mohr****Variegated Horsetail****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1859**Habitat** Open base-flushed mires or heathland.

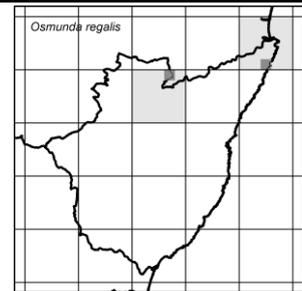
**Commentary** Rhizomatous perennial, the stems inconspicuous, slender, creeping, each section with paired ridges and often tinged orange, the internodes banded black and white with short, white-bordered teeth. Locally extinct, long lost from its three former haunts and without the open, basic conditions required, recolonisation seems highly unlikely. Elsewhere a local species requiring basic substrate, in Scotland with a stronghold between Tyndrum (Argyllshire) and Tomintoul (Banffshire), its nearest extant sites are in the upper Dee catchment (South Aberdeenshire) and the Angus Glens.



Location	Grid Ref	Year	Recorder / Reporter
<i>Nigg Parish, a short way above railway bridge</i>	NJ90	1840-1853	Farquharson, J.
<i>Loch of Park</i>	NO79U	1849	
<i>Banchory, along the course of R Dee [perhaps in NO79]</i>	NO69	1820-1859	Brichan, J.
<i>Banchory, below church at edge of R Dee</i>	NO7095	1851	Ewan, W.

**E006 *Osmunda regalis* L.****Royal Fern****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1919**Habitat** Sheltered marshy ground or wet heathland.

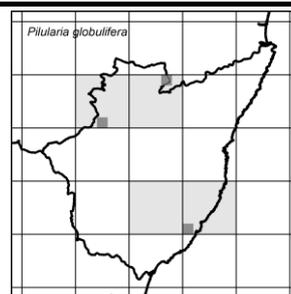
**Commentary** Tufted perennial, the sterile leaves erect or leaning outwards, large and twice-pinnate, the fertile leaves erect, tall and slender with an irregular mass of sporangia in the upper part. Locally extinct, long lost from its native haunts and unlikely to recolonise of its own accord. Elsewhere widespread but local, in Scotland mostly in the west, there are very few extant sites in eastern or central Scotland and many of those are derived from planted material.



Location	Grid Ref	Year	Recorder / Reporter
<i>Cove Bay, on steep rocks half mile S of</i>	NJ9501	1820-1859	Dickie, G.
<i>Cove Bay, steep cliff about half mile N</i>	NJ90	1850	Ewan, W.
<i>Nigg Parish</i>	NJ90	1880-1919	Trail, J.
<i>Loch of Park</i>	NO7698	1842	Beveridge, R.
<b>INTRODUCED / PLANTED</b>			
<b>Crathes Castle, Caroline's Garden</b>	<b>NO732967</b>	<b>2019</b>	<b>Elston, D.</b>

**E007 *Pilularia globulifera* L.****Pillwort****Local Origin** Native**National Status** NT, NS, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1903**Habitat** Thinly vegetated margins of ponds or lochs.

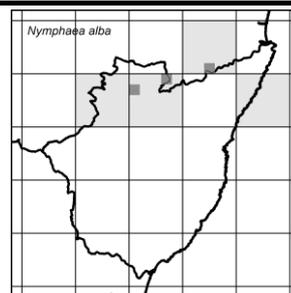
**Commentary** Rhizomes long-creeping, giving rise to crowded sterile leaves which are coiled when young, thin and erect when mature, the fertile leaves small and globular at the base of the sterile leaves. Locally extinct, formerly recorded from four or five widely scattered sites but long gone from these. Elsewhere widespread but very local, lost from many lowland areas, the nearest recent records in the wild being from Loch Tummel (Mid Perthshire) and upper Speyside (Moray). Recently introduced by accident to a garden pond at Fetteresso.



Location	Grid Ref	Year	Recorder / Reporter
Loch of Park	NO79U	1878	Druce, G.
Strachan, water at Dalbreck	NO6591	1870-1879	Sim, J.
Strachan	NO69	1872	Sim, J.
Benholm, Annie's Dam, small loch	NO8071	1903	Somerville, A.
Red Hall / Red Hill [location unknown]		1857	

**E008 *Nymphaea alba* L.****White Water-lily****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/3/3**Earliest to Latest Record (or start and end of intervals)** 1820 to 1957**Habitat** Lowland ponds.

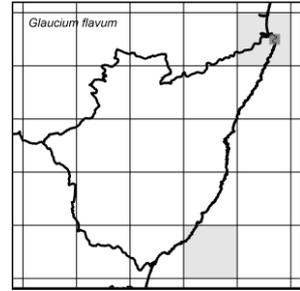
**Commentary** Perennial stand-forming aquatic, the leaves large and floating, the flowers with many large, white petals held aurally. Locally rare, long lost from its original sites though perhaps native only in Loch of Park, and almost certainly introduced to its current sites. Elsewhere widespread and frequent in lowland Britain, with a western bias in Scotland, recorded recently on Deeside from Potarch to Aboyne (South Aberdeenshire), also from Rescobie Loch and Loch of Kinnordy (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Banchory-Devenick Parish [perhaps in NJ90]	NO99	1880-1919	Trail, J.
Maryculter, small lake N of avenue to Maryculter House	NJ80K	1820-1859	Dickie, G.
Maryculter Parish [perhaps in NO89]	NJ80	1880-1919	Trail, J.
Loch of Park	NO7698	1820-1859	Adams, F.
Loch of Leys	NO7097	1820-1859	Adams, F.
Strachan to Inchmarlo (hectad)	NO69	1957	Sommerville, A.
<b>INTRODUCED / PLANTED</b>			
Maryculter, pond at "The Den and the Glen"	NO86099942Ø	2006	Lawrie, J.
Banchory-Devenick, Heathcot	NJ89520091Ø	2004	Waddell, J.

**E009 *Glaucium flavum* Crantz****Yellow Horned-poppy****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1750 to 1859**Habitat** Coastal shingle and sand.

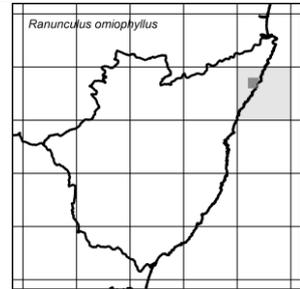
**Commentary** Tufted biennial or perennial, the leaves waxy, glaucous and much-divided, the flowers individual with large yellow petals producing remarkably long, narrow seed cases. Locally extinct, recorded from three hectads but long lost from these. Elsewhere widespread and often frequent along southern coasts from Lincolnshire to Galloway, otherwise little recorded and only once recently north of the Firth of Forth so although a rather mobile species, it seems unlikely to become re-established soon.



Location	Grid Ref	Year	Recorder / Reporter
Nigg Bay	NJ9604	1797	Beattie, J.
Johnshaven, beach to N	NO86	1820-1859	Stephen

**E010 *Ranunculus omiophyllus* Ten.****Round-leaved Crowfoot****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1958 to 1958**Habitat** Damp, bare mud.

**Commentary** Annual or perennial, the stems creeping, the leaves broadly circular with lobes that are widest some distance above their base, the flowers with white petals and sepals pointing strongly downwards. Locally extinct having been recorded only once. Elsewhere widespread and frequent in parts of the south and west as far north as Helensburgh (Dunbartonshire) and Fintray (Stirlingshire), otherwise recorded recently in Scotland only from Scalpay (North Ebeudes) suggesting natural recolonisation is unlikely to take place soon.



Location	Grid Ref	Year	Recorder / Reporter
Portlethen, rills on shore	NO99I	1958	Duncan, U.

**E011 *Saxifraga hirculus* L.****Marsh Saxifrage****Local Origin** Native**National Status** VU, NR, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1839 to 1842**Habitat** Base-flushed marsh or heathland.

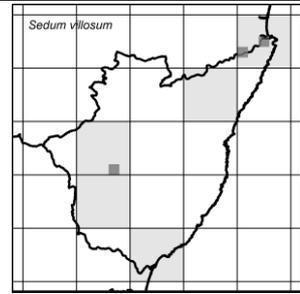
**Commentary** Stoloniferous perennial, the leaves elliptical, clustered at the base then decreasing in size up the stem, the stems erect each with one to three flowers, the petals yellow and ascending well above the spreading sepals. Locally extinct, only known from one site and long lost from there. Elsewhere the nearest known extant sites are near The Buck of Cabrach (North Aberdeenshire) and below Beinn Iutharn Mhor (East Perthshire).



Location	Grid Ref	Year	Recorder / Reporter
Glenbervie, at Jacksbank, wet moor	NO7683	1842	Gorrie, W.

**E012 *Sedum villosum* L.****Hairy Stonecrop****Local Origin** Native**National Status** NT, NS, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1817 to 1969**Habitat** Ditches and flushes in heathland.

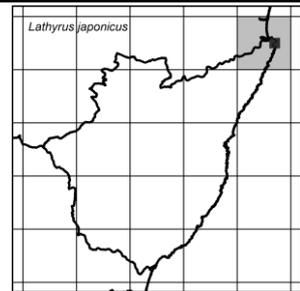
**Commentary** Loosely tufted biennial or perennial, the stems sometimes procumbent and rooting at the base, always ultimately erect, the leaves alternate, fleshy and reddish, the flowers pale- to deep-pink, clustered at the top of the stems. Locally extinct, recorded from at least seven sites, but rarely since 1900 and most recently near Fettercairn. Elsewhere a local species of upland areas from Mid-west Yorkshire to Banffshire, the nearest recent records are from near Ballater (South Aberdeenshire) to the north-west, also from near Gilmerton (Stirlingshire) and Holl Reservoir (Fife & Kinross) to the south-west, suggesting natural recolonisation is unlikely in the short term.



Location	Grid Ref	Year	Recorder / Reporter
Maryculter Parish [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Banchory-Devenick, near East Gate of Banchory House	NJ9102	1817	Thomson, A.
Nigg, marshes near church	NJ90M	1820-1859	Dickie, G.
Drumtochty, bogs about [perhaps in NO67/77/78]	NO68	1820-1859	Dickie, G.
Fettercairn, in Slack Burn area [perhaps in NO67U]	NO68Q	1960-1969	
Fettercairn (hectad)	NO67	1950-1960	
Hill of Woodstone [nr St Cyrus] and Hill of Garvock	NO76	1820-1859	Croall, A.

**E013 *Lathyrus japonicus* Willd.****Sea Pea****Local Origin** Native**National Status** -, NS, SBL**Local Status** LE; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1987 to 2014**Habitat** Coastal shingle.

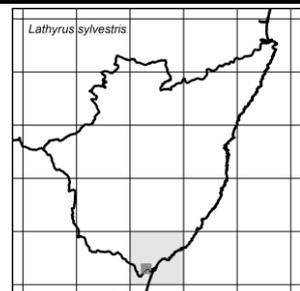
**Commentary** Procumbent, rhizomatous perennial, the leaves blue-green, pinnate with rounded leaflets, the inflorescence comprising small clusters of purple-blue flowers. Locally extinct, present in a small area just a few metres across at Nigg Bay ca. 1990-2015, site lost by 2018 to harbour development. Elsewhere widespread but very local around the coast, the only other recent Scottish records coming from the mouth of the Tay estuary (Barry Links, Angus and Tentsmuir, Fife & Kinross), also the islands of Mid Ebudes.



Location	Grid Ref	Year	Recorder / Reporter
Nigg Bay, stony shore	NJ96500473	2014	Welch, D.

**E014 *Lathyrus sylvestris* L.****Narrow-leaved Everlasting-pea****Local Origin** Native**National Status** -, -, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1884**Habitat** Scrub and wood edges.

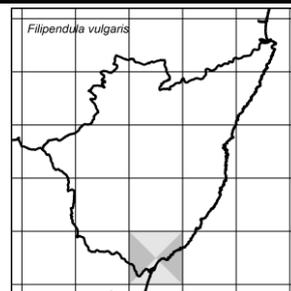
**Commentary** Straggling perennial, the stems broadly winged, the leaves each with one opposite pair of leaflets and ending with a branching tendril, the flowers showy, pink-purple in a rather tight head. Locally extinct, known only from St Cyrus, long lost from there and perhaps not native. Elsewhere widespread but infrequent in the south, in Scotland always local and now much declined, the closest recent records being from sea cliffs near Arbroath (Angus).



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, cliffs on W side of N Warburton cave	NO76	1884	Trail, J.; Roy, J.

**E015 *Filipendula vulgaris* Moench****Dropwort****Local Origin** Native**National Status** -, -, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1859**Habitat** Base-rich grassland.

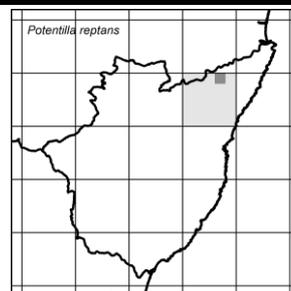
**Commentary** Perennial, the leaves pinnate, all basal with many pairs of toothed leaflets, the erect stems supporting a rather diffuse inflorescence of white, six-petalled flowers. Locally extinct having only ever been recorded at St Cyrus and long lost from there. Elsewhere widespread in southern species, often frequent, in Scotland with very few extant sites, the closest recent record being from Dundee (Angus), suggesting natural recolonisation is unlikely in the near future.



Location	Grid Ref	Year	Recorder / Reporter
<i>St Cyrus, S end of cliffs</i>	<i>NO76</i>	<i>1820-1859</i>	<i>Sutherland</i>

**E016 *Potentilla reptans* L.****Creeping Cinquefoil****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1844 to 1844**Habitat** Wayside verges.

**Commentary** Perennial, the stems creeping and rooting at the nodes, the leaves palmate with five leaflets and long petioles, the flowers arising singly on slender pedicels from upper nodes have five yellow petals and five green sepals. Locally extinct, recorded only once, the 1844 specimen having been confirmed by Trail. Elsewhere widespread and frequent in the south, local in Scotland north of the Tay Estuary, recorded recently in Angus not far from the border with Kincardineshire and so may colonise Kincardineshire in the foreseeable future.



Location	Grid Ref	Year	Recorder / Reporter
<i>Kingcausie, Corbie Den</i>	<i>NO89U</i>	<i>1844</i>	<i>Beveridge, R.</i>

**E017 *Rosa mollis* x *spinosissima* = *R. x sabinii* Woods****A Hybrid Rose****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1901 to 1901**Habitat** Scrub and hedgerows.

**Commentary** Suckering woody shrub, the stems armed with patent prickles and acicles, either the prickles standing out as distinct or the leaflets with glandular hairs. Locally extinct, found once near Stonehaven. Elsewhere this spontaneous hybrid has very few recent records, but with both parents being present locally may be found again.



Location	Grid Ref	Year	Recorder / Reporter
<i>Stonehaven, by railway bridge</i>	<i>NO88</i>	<i>1901</i>	<i>Bailey, C.</i>

**E018 *Elatine hexandra* (Lapierre) DC.****Six-stamened Waterwort****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1859**Habitat** Muddy margins of ponds and lochs, or in shallow freshwater.

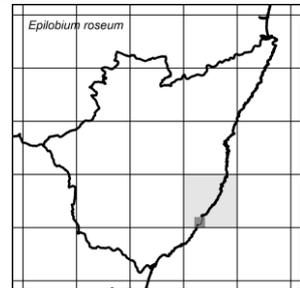
**Commentary** Small annual, the stems creeping and rooting at the nodes, the leaves short, opposite, the flowers on short pedicels with tiny pinkish petals wider than long. Locally extinct, once established at Loch of Park but lost from there in the mid to late 1800s along with several other species. Elsewhere rather local, widespread but mostly western, the closest recent records are from Loch Davan (South Aberdeenshire), also the lochs west of Blairgowrie and Rattray (East Perthshire), suggesting recolonisation by natural means is unlikely.



Location	Grid Ref	Year	Recorder / Reporter
<i>Loch of Park, shallow water at E end</i>	<i>NO7798</i>	<i>1820-1859</i>	<i>Fleming, A.</i>

**E019 *Epilobium roseum* Schreb.****Pale Willowherb****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1957 to 1957**Habitat** Damp, disturbed ground.

**Commentary** Perennial, the stems erect with patent glandular hairs and appressed non-glandular hairs, the leaves all stalked and toothed, the flowers quite large, pale pink with a club-shaped stigma. Locally extinct, only recorded once. Elsewhere widespread in lowland areas, most frequent in the south and absent from many parts of Scotland, the closest recent records are from Kintore (South Aberdeenshire), also on the Moray Coast and just beyond Dundee (Angus), so it is unlikely to return of its own accord in the near future.



Location	Grid Ref	Year	Recorder / Reporter
<i>Gourdon, wet runnels on shore</i>	<i>NO8270</i>	<i>1957</i>	<i>Morgan, B.; Duncan, U.</i>

**E020 *Malva neglecta* Wallr.****Dwarf Mallow****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1859**Habitat** Roadsides, waste places.

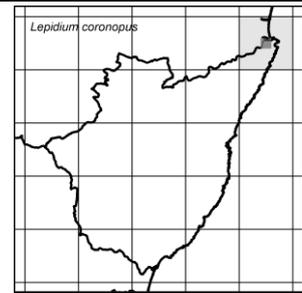
**Commentary** Annual, the stems decumbent and densely hairy, the leaves with long petioles and almost circular lamina with shallow lobes, the flowers long-stalked, the petals notched with deep purple or pink veining on a pale background. Locally extinct, long lost having only twice been recorded. Elsewhere widespread and frequent in much of the south, in Scotland almost entirely in the east, the closest recent records coming from Carnoustie (Angus) and Elgin (Moray), but a record from near Montrose (Angus) in 1975 suggests it has the potential to recolonise in the near future.



Location	Grid Ref	Year	Recorder / Reporter
<i>Torry, S end of Wellington Suspension Bridge</i>	<i>NJ9404</i>	<i>1820-1859</i>	<i>Smith A.</i>
<i>St Cyrus, at Milton of Mathers</i>	<i>NO765</i>	<i>1820-1859</i>	<i>Sutherland</i>

**E021 *Lepidium coronopus* (L.) Al-Shehbaz****Swine-cress****Local Origin** Archaeophyte**National Status** -, -, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1830 to 1839**Habitat** Rough ground.

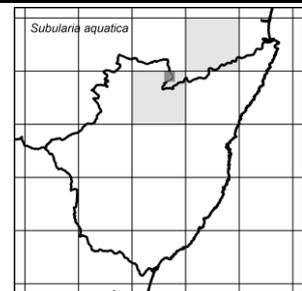
**Commentary** Low-growing annual or biennial with a basal rosette of once- to twice-pinnately lobed leaves, the white-petalled flowers apparently in small clusters, each forming two rows of very short-stalked, rounded, rough-surfaced seeds. Locally extinct, only known from by the old harbour at Torry and long lost from there. Elsewhere widespread and frequent in the south-east, becoming coastal and much scarcer further north, the only recent record from Scotland north of the Tay Estuary is from Sandhaven (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Torry, wet brae where boats were pulled up	NJ9505	1830-1839	Cow

**E022 *Subularia aquatica* L.****Awlwort****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1874**Habitat** Margins of ponds or lochs with a stony substrate.

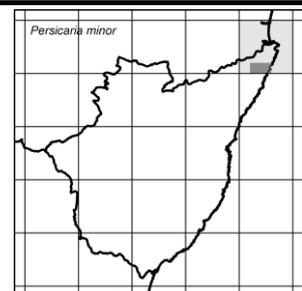
**Commentary** Small annual or biennial, the leaves are long, narrow and tapering to the tip, confined to a basal rosette, the thin stems drooping to erect each supporting few rather distant flowers, the four petals small and white, the seed pods flattened, ovoid. Locally extinct, only known from Loch of Park but lost from there in the mid to late 1800s along with several other species. Elsewhere mostly north and west of Perth, it is still found in upper Glen Esk (Angus) and near Lochnagar (South Aberdeenshire) but unlikely to recolonise due to a lack of suitable habitat.



Location	Grid Ref	Year	Recorder / Reporter
Loch of Park	NO7698	1874	Sim, T.

**E023 *Persicaria minor* (Huds.) Opiz****Small Water-pepper****Local Origin** Native**National Status** VU, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1880 to 1919**Habitat** Disturbed wet ground.

**Commentary** Annual, the lower part of each stem creeping, the leaves fairly narrow, tapering, without a peppery taste, the inflorescence a lax, often nodding, head of small, unstalked flowers with pinkish or pale green perianths lacking glands. Locally extinct, only known from around Loirston Loch and lost from there by 1920. Elsewhere widespread but local, in Scotland with its highest density of sites in the hills of Kirkcudbrightshire and Dumfriesshire but not recorded recently from many former sites, the closest known sites are near Blairgowrie (Angus) suggesting recolonisation is unlikely in the short term.



Location	Grid Ref	Year	Recorder / Reporter
Loirston Loch, margins and pool to E	NJ9401	1880-1919	Trail, J.

**E024 *Oxyria digyna* (L.) Hill****Mountain Sorrel****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1919**Habitat** Riverine shingle.

**Commentary** Small perennial, the leaves basal, almost orbicular, the stems short, erect, supporting an inflorescence with each branch narrowly clothed by brownish green flowers or fruits. Locally extinct, once appearing very occasionally by the River Dee presumably sourced from upstream, an unconfirmed 1980 record has been ignored and in any case was most likely in South Aberdeenshire. Elsewhere widespread and frequent in mountainous areas, frequent in the upper reaches of the catchments of the River Dee (South Aberdeenshire) and less so of the River North Esk (Angus), so may occur again as colonists rather than established populations.



Location	Grid Ref	Year	Recorder / Reporter
Banchory-Devenick Parish, shingle	NJ90	1880-1919	Trail, J.
Kingcausie	NJ80	1880	Boswell-Syme, J.
Maryculter Parish, shingle [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Banchory [perhaps in NO79]	NO69	1820-1859	Adams, F.

**E025 *Drosera anglica* Huds.****Great Sundew****Local Origin** Native**National Status** NT, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1880 to 1919**Habitat** Wet peatland.

**Commentary** Perennial, the leaves all basal with long petioles, blades much longer than wide and covered by insect-catching glandular hairs, the flowering stems erect, the inflorescence comprising a few small flowers with white petals. Locally extinct, only recorded from one site and long-lost from there. Elsewhere widespread and frequent in north-west Scotland, otherwise very local and although present in upper Deeside (South Aberdeenshire) it is unlikely to recolonise in the near future.



Location	Grid Ref	Year	Recorder / Reporter
Netherley, Red Moss of	NO89	1880-1919	Trail, J.

**E026 *Arenaria leptoclados* (Rchb.) Guss.****Slender Sandwort****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1950 to 1969**Habitat** Open, well-drained ground.

**Commentary** Short annual or biennial, the stems thin, the leaves broad with pointed tips in widely-spaced opposite pairs, the inflorescence diffuse, the flowers with five small white petals shorter than the interspersed green sepals, the fruit capsule barely longer than the sepals and not constricted below the teeth. Locally extinct and only twice recorded. Elsewhere widespread, frequent in the south-east, becoming less frequent towards the north and west, in Scotland mostly eastern, recorded recently from three sites in Angus so rediscovery in Kincardineshire is not unlikely.



Location	Grid Ref	Year	Recorder / Reporter
Johnshaven, railway N of	NO86	1958	Duncan, U.
St Cyrus	NO76	1950-1969	

**E027 *Sabulina verna* (L.) Rchb.****Spring Sandwort****Local Origin** Native**National Status** NT, NS, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1852 to 1852**Habitat** Ultra-basic or serpentine outcrops.

**Commentary** Small perennial, the non-flowering stems short and tufted, the flowering stems long and spreading, the leaves narrowly linear, the flowers with five white petals much longer than the interspersed green sepals. Locally extinct, only one very old record from near the highland boundary fault. Elsewhere very local, restricted to particular geological conditions whose nearest occurrence is at the serpentine of the Hill of Towanreef (North Aberdeenshire) and the Green Hill of Strathdon (South Aberdeenshire), so unlikely to ever recolonise.



Location	Grid Ref	Year	Recorder / Reporter
Garron Point	NO8987	1852	Newbould, W.

**E028 *Agrostemma githago* L.****Corncockle****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1919**Habitat** Disturbed ground.

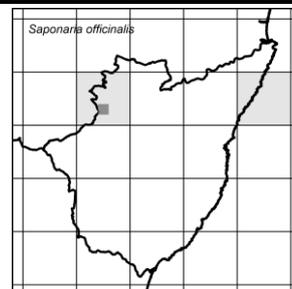
**Commentary** Erect annual with narrow, linear, leaves, the flowers borne individually on long stalks comprising a hairy, striped calyx, broad pinkish-purple petals with white bases and narrowly-linear green sepals. Locally extinct, once a widely-distributed arable weed, now most likely to be found as the result of the use of wildflower seed mixes. Elsewhere widespread but infrequent in lowland arable areas, local in Scotland north of the central belt, the recent record from Park Quarry (South Aberdeenshire) may be from long-dormant rather than recently-sown seed.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus	NO76	1896	Johnstone, R.
Benholm	NO86	1876	Trail, J.
Auchenblae, barley field	NO77	1872	
Nigg	NJ90	1886	Sutherland, H.
Kingcausie [perhaps in NJ80]	NO89	1847	Boswell-Syme, J.
Maryculter Parish [perhaps in NJ80]	NO89	1880-1919	Trail, J.

**E029 *Saponaria officinalis* L.****Soapwort****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1919**Habitat** Roadside verges or waste places near gardens.

**Commentary** Loosely tufted perennial, the stems erect, the leaves fairly narrow, in opposite pairs, the inflorescence with showy, pale pink flowers, each with five thin petals and a long, narrow calyx tube. Locally extinct, only ever recorded from Strachan and Banchory-Devenick parishes. Elsewhere widespread and sometimes frequent in lowland areas, infrequent in Scotland, recorded recently from Montrose (Angus) and at two sites in lowland South Aberdeenshire suggesting it may return in the near future, most probably as a garden escape.



Location	Grid Ref	Year	Recorder / Reporter
Strachan, roadside half mile W from church	NO6592	1820-1859	Stephen
Banchory-Devenick Parish [perhaps in NJ90]	NO99	1880-1919	Trail, J.

**E030 *Salicornia* L.****Glasswort****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1919**Habitat** Saltmarshes or intertidal mud.

**Commentary** Short perennial, the stems erect, branching, both stems and branches round and fleshy, with no free leaves, the flowers inconspicuously showing as stamens and stigmas protruding from slits in the stem and branches. Locally extinct, only ever recorded from the southern coast and long lost from there. Elsewhere the genus is widely distributed round all coasts, recorded recently from Montrose Basin (Angus) and the mouth of the River Ythan (North Aberdeenshire) so may recolonise if suitable substrate should form again.



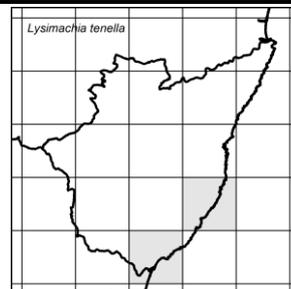
Location	Grid Ref	Year	Recorder / Reporter
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<i>Johnshaven, at Brotherton</i>	NO86	1820-1859	Murray, A.
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<i>St Cyrus, in the estuary of the R. Esk</i>	NO76	1880-1919	Trail, J.W.H.
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**E031 *Lysimachia tenella* L.****Bog Pimpernel****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1859**Habitat** Open, base-flushed marshes or dune slacks.

**Commentary** Procumbent perennial, the stems creeping and rooting at the nodes, the leaves almost circular in outline and in opposite pairs, the flowers with short pedicels, each with five light pink petals, somewhat cup-shaped, collectively forming a colourful carpet when conditions are right. Locally extinct having been long lost from its former haunts. Elsewhere widespread, frequent in some areas but absent from others, in Scotland mostly coastal but scarce on the east coast, the closest recent records are some distance away, from near Leuchars (Fife & Kinross) in the south and Fraserburgh (North Aberdeenshire) in the north which, coupled with a lack of suitable habitat, suggests recolonisation is unlikely.



Location	Grid Ref	Year	Recorder / Reporter
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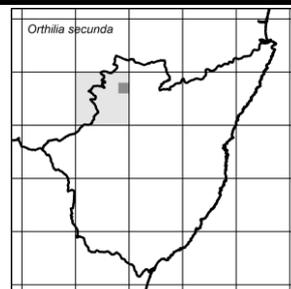
<i>St Cyrus, marshy places in inland parts</i>	NO76	1835-1845	New Statistical Account
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<i>Arbuthnott [perhaps in NO77]</i>	NO87	1820-1859	Chrystall, L.
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<i>Inverbervie</i>	NO87	1835-1845	New Statistical Account
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**E032 *Orthilia secunda* (L.) House****Serrated Wintergreen****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1963**Habitat** Heathy ground under current or former Scots pine woodland.

**Commentary** Loosely tufted perennial, the vegetative stems shortly creeping, the flowering stems shortly erect, the leaves in closely-spaced opposite pairs with short petioles and finely toothed margins, the bell-shaped flowers on one side of the stem, with white petals and a long excurrent stigma. Locally extinct, only having been known from Banchory. Elsewhere almost confined to the Lake District (Westmorland and Cumberland) and the Scottish uplands, widely distributed on Deeside and recently found by a moorland burn on Feughside (South Aberdeenshire) close to the border with Kincardineshire, suggesting it may also be found locally in the near future.

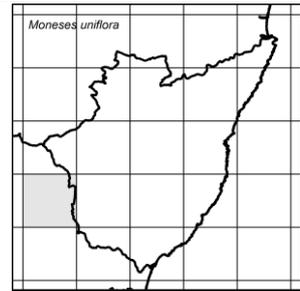


Location	Grid Ref	Year	Recorder / Reporter
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<i>Banchory, woodland by track at Burnett Park</i>	NO686963	1963	Sommerville, A.
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**E033 *Moneses uniflora* (L.) A.Gray****One-flowered Wintergreen****Local Origin** Native**National Status** VU, NR, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1830 to 1839**Habitat** Scots pine plantations.

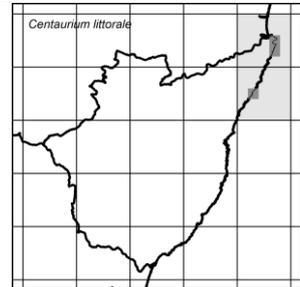
**Commentary** Perennial forming loose patches, the leaves basal with short petioles and toothed, the stems erect each bearing a single flower drooping downwards with white, horizontally held, petals and a long style. Locally extinct, with just a single authenticated record for this nationally rare species. Elsewhere found at sites scattered across North East Scotland, the nearest extant sites are around Forres in Moray and Speyside (East Inverness-shire) suggesting the species is unlikely to return to Kincardineshire unaided.



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, Burn Wood	NO57	1830-1839	

**E034 *Centaurium littorale* (Turner ex Sm.) Gilmour****Seaside Centaury****Local Origin** Native**National Status** -, NS, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1919**Habitat** Coastal grassland.

**Commentary** Biennial, the stems erect, several per plant, the leaves initially forming a basal rosette, the stem leaves in widely-spaced opposite pairs, the flowers clustered, upward-facing, each with a long calyx tube and five bright pink corolla lobes contrasting with the yellow stamens. Locally extinct, recorded by at least four individuals at Nigg but long lost from there. Elsewhere widespread at the coast but very local, the closest recent records are from Tentsmuir (Fife & Kinross) in the south and from Findhorn (Moray) in the north suggesting natural recolonisation is unlikely in the near future.



Location	Grid Ref	Year	Recorder / Reporter
Nigg between Doonie Well and Altens on grass bank nr cliff	NJ90	1820-1859	Grant, P.
Nigg coast, (1849 Nigg at Burnbanks)	NJ90	1880-1884	
Downies, grassy slope on cliff at S limit Banch-Dev Parish	NO99H	1880-1919	Taylor, J.

**E035 *Lithospermum officinale* L.****Common Gromwell****Local Origin** Native**National Status** -, -, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1880 to 1876**Habitat** Coarse grassland on rich soil.

**Commentary** Robust, tufted perennial, the stems clustered, erect and leafy to the tips, the leaves narrow, strongly veined and alternate, the flowers small, positioned singly in leaf axils, each short-stalked with five creamy, rounded petals. Locally extinct, only once recorded, long lost and perhaps never established. Elsewhere almost exclusively in the south, declining everywhere, in Scotland with very few recent records and none from adjacent vice-counties, suggesting it is unlikely to be re-found in Kincardineshire soon.



Location	Grid Ref	Year	Recorder / Reporter
Banchory, roadside nr Brig o' Feugh [perhaps in NO69]	NO79	1876	Trail, J.

**E036 *Buglossoides arvensis* (L.) I.M.Johnst.****Field Gromwell****Local Origin** Archaeophyte**National Status** EN, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1859**Habitat** Arable field margins or waste ground.

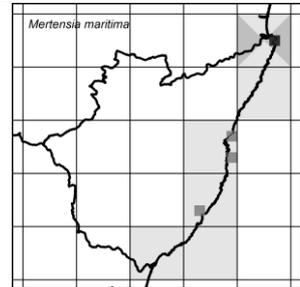
**Commentary** Hairy annual, the stems erect, the leaves with only a strong central vein, becoming narrower up the stem, the inflorescence few-flowered, the corolla tube slightly exceeding the calyx with five pale, creamy lobes. Locally extinct, recorded only twice and long lost. Elsewhere only one recent record on the Scottish mainland suggesting this species is unlikely to be re-found in Kincardineshire soon.



Location	Grid Ref	Year	Recorder / Reporter
<i>St Cyrus, fields at Kirkside</i>	NO76	1820-1859	Stephen
<i>Arbuthnott [perhaps in NO77]</i>	NO87	1820-1859	Chrystall, L.

**E037 *Mertensia maritima* (L.) Gray****Oysterplant****Local Origin** Native**National Status** NT, NS, -**Local Status** LE; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1792 to 2013**Habitat** Coastal shingle within reach of the sea.

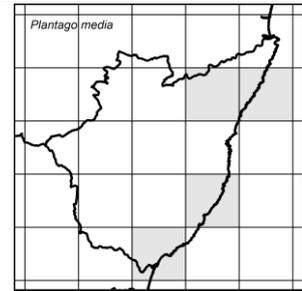
**Commentary** Low-growing perennial with a spreading habit, the leaves glaucous, fleshy, the flowers with blue-pink petals. Locally extinct, the long-established site at Nigg Bay having been lost to development of a new harbour and not recorded further south since 1903. Elsewhere restricted to northern coastal sites, recorded recently from Lindisfarne (North Northumberland) to Rhyll (Denbyshire) and presently still at Sands of Forvie NNR (North Aberdeenshire), our plants were the second most southerly population on the east coast.



Location	Grid Ref	Year	Recorder / Reporter
<b>Nigg Bay</b>	<b>NJ9604</b>	<b>2013</b>	<b>Dale, K.</b>
<i>St Cyrus</i>	NO76	1835-1845	<i>New Statistical Account</i>
<i>Johnshaven [perhaps in NO86]</i>	NO76	1806	Don, G.
<i>Benholm, sands</i>	NO86	1820-1859	Chrystall, L.
<i>Johnshaven, between there and Inverbervie</i>	NO86	1820-1859	Stephen
<i>Gourdon, between there and Johnshaven</i>	NO86	1820-1836	Murray, A.
<i>Inverbervie, Bervie Bay</i>	NO8372	1903	Somerville, A.
<i>Stonehaven, Thornyhive</i>	NO8882	1809	Middleton, W.
<i>Stonehaven, Bay of</i>	NO88	1827	
<i>Garron Point, Skatie Shore</i>	NO8987	1872	
<i>Portlethen</i>	NO99	1820-1836	Murray, A.

**E038 *Plantago media* L.****Hoary Plantain****Local Origin** Native**National Status** -, -, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1948**Habitat** Dry, basic grassland.

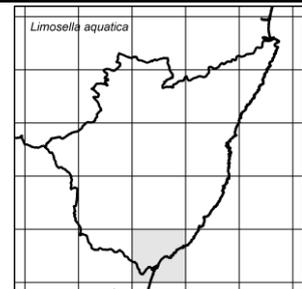
**Commentary** Perennial, the leaves all basal, broad, hairy, strongly veined and mostly flattened to the ground, the stems erect, thin but firm, the inflorescences long, narrowly cylindrical, the flowers opening from below are small, pinkish with anthers held on very long filaments. Locally extinct, with old records suggesting at least some plants were deliberate introductions. Elsewhere widespread and frequent in much of England, in Scotland very local with many records appear to be of introductions or escapes suggesting any return to Kincardineshire is unlikely to be through the spread of native populations.



Location	Grid Ref	Year	Recorder / Reporter
<i>St Cyrus, sand dunes</i>	NO76	1948	
<i>Arbuthnott [perhaps in NO77]</i>	NO87	1820-1859	Chrystall, L.
<i>Banchory-Devenick Parish, in lawns [perhaps in NJ90]</i>	NO99	1880-1919	Trail, J.
<i>Maryculter Parishes, in lawns [perhaps in NJ80]</i>	NO89	1880-1919	Trail, J.

**E039 *Limosella aquatica* L.****Mudwort****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1876**Habitat** Pond margins kept bare and damp by fluctuating water levels.

**Commentary** Low-growing annual spreading by stolons, the leaves all basal, spreading, with petioles longer than the narrow blades, the flowers inconspicuous with short stalks arising directly from the centre of the basal leaf cluster, the petals short and white. Locally extinct, only recorded from one site though on widely separate occasions, and long lost from there. Elsewhere local and mostly infrequent, it has been recorded recently from a band of thinly scattered sites stretching from Fraserburgh (North Aberdeenshire) to Munnoch (Ayrshire) from which it might return even if without becoming well-established.



Location	Grid Ref	Year	Recorder / Reporter
<i>St Cyrus, mill dam of Free Church manse</i>	NO76	1876	Trail, J.

**E040 *Utricularia vulgaris* agg.****A Bladderwort****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1859**Habitat** Base-rich but nitrogen-poor ponds or lochs.

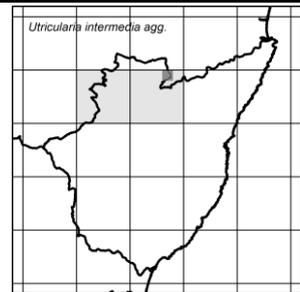
**Commentary** Free-floating perennial, the stems all with both green leaves and bladders, the green leaf segments dichotomously branched, the ultimate segments fine and with teeth and bristles. Locally extinct, recorded from four hectads but long lost. Elsewhere widespread but very infrequent and lost from many former sites, in Scotland mostly in the north and west, recorded recently from Loch Lee and near Forfar (Angus) also near Dinnet (South Aberdeenshire) so an unaided return to Kincardineshire would not be unlikely if the right conditions were created.



Location	Grid Ref	Year	Recorder / Reporter
Nigg Bay, marsh above to SW; Ferryhill Moss	NJ90	1820-1859	Dickie, G.
Kingcausie, near [perhaps in NJ80]	NO89	1820-1859	Milne, D.
Banchory [perhaps in NO79]	NO69	1820-1859	Adams, F.
Garvock, Whitewater Moss	NO7670	1820-1859	Stephen

**E041 *Utricularia intermedia* agg.****A Bladderwort****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1957**Habitat** Open water in peaty bogs and marshes.

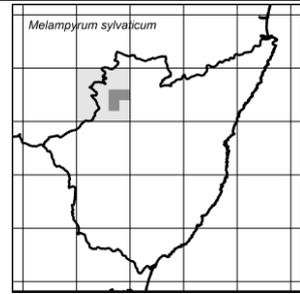
**Commentary** Free-floating perennial, the stems with green leaf segments very different from those with bladders, all dichotomously branched, the segments fine and with teeth and bristles. Locally extinct, recorded in two hectads in one of which it may yet be rediscovered. Elsewhere widespread and frequent in north-west Scotland, otherwise very local and declining, not recorded recently in lowland eastern Scotland, the nearest current sites for this species being near Braemar (South Aberdeenshire) suggest unaided recolonisation of Kincardineshire would be unlikely any time soon.



Location	Grid Ref	Year	Recorder / Reporter
Strachan to Inchmarlo (hectad)	NO69	1957	Sommerville, A.
Loch of Park	NO79	1849	Mactier, A.

**E042 *Melampyrum sylvaticum* L.****Small Cow-wheat****Local Origin** Native**National Status** EN, NS, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1835 to 1871**Habitat** Old woodland on rich soil close to running water.

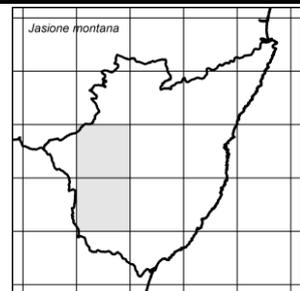
**Commentary** Erect annual, the narrow leaves opposite, unstalked, tapering to a pointed tip from a rather broad base, the flowers borne in pairs in the leaf axils with a short calyx tube, calyx lobes patent but not upswept, the short corolla tube deep yellow with lower lip bent downward. Locally extinct, with many old records from the Banchory area and once from Arbuthnott parish but now long lost. Elsewhere very local in highland Scotland, this species has been declining nationally and its closest extant sites (Glen Clova, Angus, and near Braemar, South Aberdeenshire) are sufficiently distant to make recolonisation unlikely.



Location	Grid Ref	Year	Recorder / Reporter
Strachan	NO69	1842	New Statistical Account
Banchory, by R Dee	NO69	1871	Hunt, G.
Blackhall	NO69	1870	Bailey, C.

**E043 *Jasione montana* L.****Sheep's-bit****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1930**Habitat** Unimproved grassland.

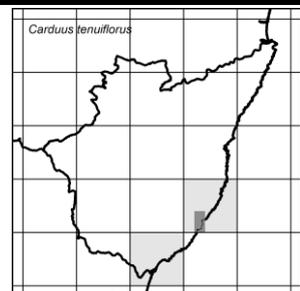
**Commentary** Loosely tufted, hairy biennial, the stems initially procumbent then erect, the leaves hairy and shortly petiolate becoming linear up the stems, the inflorescence a compact, almost spherical head of flowers with linear, blue petals. Locally extinct, only ever having been recorded from two hectads and long lost from these. Elsewhere widespread and frequent in the west as far north as Ballachulish (West Inverness-shire), in Scotland otherwise almost absent apart from in Orkney and particularly Shetland, making any unaided return to Kincardineshire unlikely.



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn (hectad)	NO67	1900-1930	
Drumtochty, dry banks [perhaps in NO67/77/78]	NO68	1820-1859	Croall, A.

**E044 *Carduus tenuiflorus* Curtis****Slender Thistle****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/1**Earliest to Latest Record (or start and end of intervals)** 1820 to 1876**Habitat** Sandy ground.

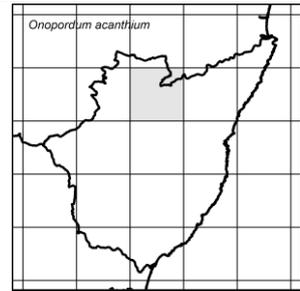
**Commentary** Tall perennial, the stem spiny-winged, the leaves spiny and woolly underneath, the flowers in small clusters with purple corollas and simple pappus hairs. Locally extinct, only recorded from the southern coast and long lost from there. Elsewhere local, mostly coastal, absent from north-west Scotland, the closest recent records being from Elie (Fife & Kinross) and several sites around Elgin (Moray).



Location	Grid Ref	Year	Recorder / Reporter
Johnshaven [perhaps in NO86]	NO76	1865	Bisset, J.P.
Inverbervie, coast	NO8372	1820-1859	Chrystall, L.
Gourdon	NO87F	1876	Trail, J.

**E045 *Onopordum acanthium* L.****Cotton Thistle****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1950 to 1960**Habitat** Waste ground.

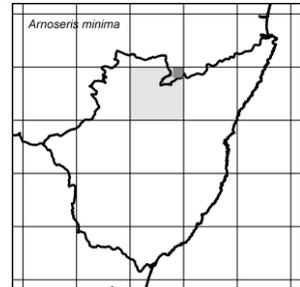
**Commentary** Biennial, the stems erect with spiny wings, the leaves spiny with angular lobes, the inflorescence comprising large, near-spherical composite heads with spiny bracts and purple flowers. Locally extinct having been recorded only once. Elsewhere widespread and frequent in the south-east, otherwise infrequent and mostly eastern to Helmsdale (East Sutherland), recorded recently from near Montrose (Angus) so may be found again in Kincardineshire in the near future.



Location	Grid Ref	Year	Recorder / Reporter
<i>Crathes (hectad)</i>	NO79	1950-1960	

**E046 *Arnoseris minima* (L.) Schweigg. & Körte****Lamb's Succory****Local Origin** Archaeophyte**National Status** RE, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1854**Habitat** Disturbed, sandy ground.

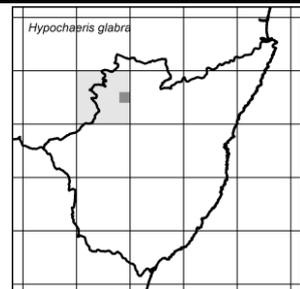
**Commentary** Annual, the leaves all in a basal rosette, the stems erect, several per rosette, branching, expanded below the capitula, each capitulum with yellow ligules. Locally extinct and long lost, only recorded once and perhaps never well established. Elsewhere a rare field weed, mostly in the south east but with about 20 records from Scotland, much declined and considered extinct since the 1970s.



Location	Grid Ref	Year	Recorder / Reporter
<i>Durris, S bank of R Dee by road to Drumoak ferry</i>	NO796981	1820-1854	Mackay, R.

**E047 *Hypochaeris glabra* L.****Smooth Cat's-ear****Local Origin** Native**National Status** VU, -, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1859**Habitat** Grassland or open ground on sandy soil.

**Commentary** Glabrous perennial, the leaves in a basal rosette unstalked and deeply lobed, the stems erect, little branched, the capitula yellow and small with ligules up to twice as long as wide. Locally extinct, only recorded once and long lost, perhaps never well established. Elsewhere widespread but local in the south, very local in Scotland with no recent records between Elgin (Moray) and Tentsmuir (Fife & Kinross) so unlikely to return unaided to Kincardineshire any time soon.



Location	Grid Ref	Year	Recorder / Reporter
<i>Banchory, cornfield halfmile S of Brig o' Feugh</i>	NO6994	1820-1859	Stephen

**E048 *Crepis mollis* (Jacq.) Asch.****Northern Hawk's-beard****Local Origin** Native**National Status** EN, NS, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1852**Habitat** Grassland, often on damp slopes.

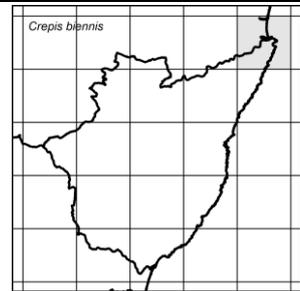
**Commentary** Erect perennial, the basal leaves with long, winged petioles, the stem leaves broadly based, the stems branched with an open, branched inflorescence, the upper branches and bracts glandular-hairy and the ligules yellow. Locally extinct, apparently only once recorded and long lost. Elsewhere mainly found in northern England and, with only three recent records in Scotland, it seems unlikely to return to Kincardineshire unaided.



Location	Grid Ref	Year	Recorder / Reporter
Banchory, banks of R Dee [perhaps in NO79]	NO69	1820-1852	Macgillivray, W.

**E049 *Crepis biennis* L.****Rough Hawk's-beard****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1913 to 1913**Habitat** Rough grassland.

**Commentary** Hairy biennial, the stems erect, the leaves pinnate with a rounded terminal lobe, the inflorescence much branched with yellow flowerheads surrounded by bracts that are hairy on the inner faces. Locally rare, only recorded twice, perhaps never fully established but appearing recently near Banchory growing from sown seed. Elsewhere widespread but rather infrequent in the south, in Scotland with only about 10 recent records in Scotland of which the closest is from Wormit (Fife & Kinross) so unlikely to return to Kincardineshire in the near future.



Location	Grid Ref	Year	Recorder / Reporter
Banchory-Devenick Parish, grass field	NJ90	1913	Ritchie, W.
<b>INTRODUCED / PLANTED</b>			
Banchory [sown into grassland]	NO71049741	2006	Green, I.

**E050 *Omalotheca supina* (L.) DC.****Dwarf Cudweed****Local Origin** Native**National Status** NT, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1859 to 1859**Habitat** Windswept summits.

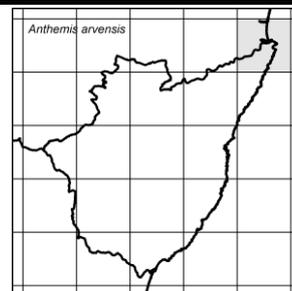
**Commentary** Low-growing perennial, the leaves mostly basal, narrow, grey-hairy, the stems short, the inflorescence made up of rather crowded, small capitula, each with dark grey-green and creamy-yellow florets. Locally extinct having only been recorded once on Mount Battock, the highest point in Kincardineshire where the habitat still appears suitable but strangely with no other records reported by Dickie from there. Elsewhere widespread and frequent in the mountains of north-west Scotland extending to Glen Clova (Angus) and Deeside hills west of Loch Muick (South Aberdeenshire) so may recolonise at some point from wind-blown seeds.



Location	Grid Ref	Year	Recorder / Reporter
Mount Battock, NE shoulder above 1582 feet	NO58	1859	Dickie, G.

**E051 *Anthemis arvensis* L.****Corn Chamomile****Local Origin** Archaeophyte**National Status** EN, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1880 to 1919**Habitat** Arable fields, disturbed ground.

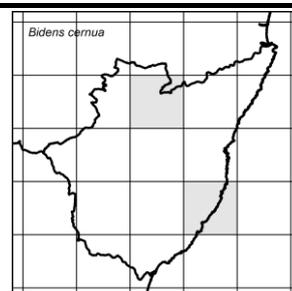
**Commentary** Aromatic annual or biennial, the stems erect, the leaves twice-pinnate with narrow ultimate segments, the flowers composite with white ray florets, the central flowers yellow above a receptacle with scales throughout. Locally extinct, once found in fields near Aberdeen but long lost. Elsewhere a declining agricultural weed, widespread but infrequent particularly in Scotland, excluding where introduced there have been no recent records between Edinburgh and Moray.



Location	Grid Ref	Year	Recorder / Reporter
Banchory-Devenick Parish, fields & shingle by Dee	NJ90	1880-1919	Trail, J.
Nigg Parish, fields	NJ90	1880-1919	Trail, J.

**E052 *Bidens cernua* L.****Nodding Bur-marigold****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1859**Habitat** Marshes and loch/pond margins.

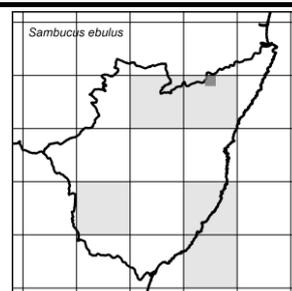
**Commentary** Annual, the stems erect, sometimes branched, the leaves without petioles, long, strongly toothed, the inflorescence a lax collection of flowerheads, each ringed with pale yellow ray florets enclosing an orange-yellow centre, hanging downwards in seed. Locally extinct, known only from two widely separated hectads but long lost from both. Elsewhere widespread but infrequent in the south, local in Scotland, the nearest current site is Loch of Kinnordy (Angus) and having recently colonised the area between Fraserburgh and Peterhead (North Aberdeenshire) it may return to Kincardineshire in the near future.



Location	Grid Ref	Year	Recorder / Reporter
Loch of Leys	NO7097	1820-1859	Adams, F.
Arbuthnott, [could be NO77] bogs in Parish	NO87	1820-1859	Chrystall, L.

**E053 *Sambucus ebulus* L.****Dwarf Elder****Local Origin** Archaeophyte**National Status** -, -, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1790 to 1960**Habitat** Locally extinct, recorded from five hectads but long-lost from these.

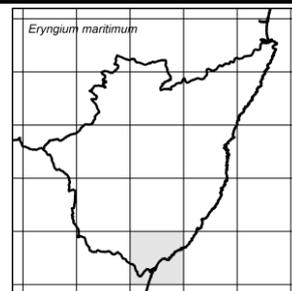
**Commentary** Rhizomatous stand-forming perennial, the stems erect, the leaves pinnate with pointed, lanceolate, toothed segments and conspicuous stipules, the inflorescence repeatedly branched, forming a contiguous mass of tiny flowers with five white petals that develop black berries. Elsewhere widespread but rather local, mostly in the south, the few recent Scottish records seem associated with buildings, suggesting any return to Kincardineshire is likely to be as an escape.



Location	Grid Ref	Year	Recorder / Reporter
Benholm, by the burn above the turnpike road bridge	NO86	1820-1859	Stephen
Arbuthnott [perhaps in NO77]	NO87	1820-1859	Chrystall, L.
Fettercairn (hectad)	NO67	1950-1960	
Crathes (hectad)	NO79	1937	
Maryculter, churchyard	NO8499	1790	Beattie, J.

**E054 *Eryngium maritimum* L.****Sea-holly****Local Origin** Native**National Status** -, -, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1835 to 1845**Habitat** Coastal sands and shingle.

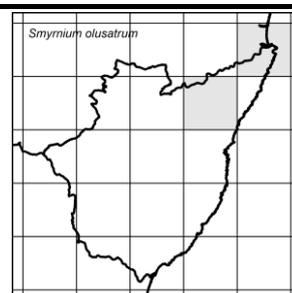
**Commentary** Low-growing perennial, the stems much branched, the leaves grey, strongly spiny, becoming unstalked up the stem, the inflorescence comprising dense near-spherical clusters of blue flowers surrounded by leaf-like bracts. Locally extinct, only recorded from St Cyrus and long lost from there. Elsewhere a coastal plant absent from the far north, the closest recent records being from Belhaven Bay (East Lothian) and North Uist (Outer Hebrides) so unlikely to recolonise Kincardineshire unaided in the foreseeable future.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, coast	NO76	1835-1845	New Statistical Account

**E055 *Smyrniolus atrum* L.****Alexanders****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1960**Habitat** Tall coastal grassland.

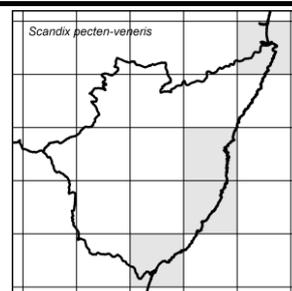
**Commentary** Biennial or perennial, the stems erect with a large cluster of leaves at the base, the leaves large, inflated at the base, two- or three-times pinnate at the base, glossy with large, toothed segments, the inflorescence twice-branched, the petals small, cream. Locally extinct, only recorded from two hectads and long lost from these. Elsewhere widespread in coastal counties in the south, local in Scotland, the closest recent records are from near Carnoustie (Angus) and between Peterhead and Fraserburgh (North Aberdeenshire) suggesting unaided recolonisation is possible but unlikely.



Location	Grid Ref	Year	Recorder / Reporter
Maryculter (hectad)	NO89	1950-1960	
Kingcausie, Corbie Den	NO89	1860	Ogston, A.
Cove Bay	NJ90	1820-1859	MacGillivray, P.

**E056 *Scandix pecten-veneris* L.****Shepherd's-needle****Local Origin** Archaeophyte**National Status** CR, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1750 to 1919**Habitat** Arable fields or waste places.

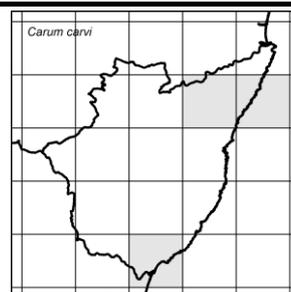
**Commentary** Annual, the stems erect, the leaves two-to four-times pinnate with narrow, linear segments bearing tiny bristles, the inflorescence with broad-based bracteoles, the flowers with white petals of uneven size developing seeds topped by a remarkably long, narrow, upward-pointing beak. Locally extinct, recorded from four hectads and long lost from these. Elsewhere much diminished everywhere, widespread but rather local in the south-east, in Scotland almost absent now with only two recent records suggesting that it is very unlikely to return to Kincardineshire unaided.



Location	Grid Ref	Year	Recorder / Reporter
Nigg Parish	NJ90	1880-1919	Trail, J.
Stonehaven, coastal area	NO8786	1750-1770	Skene, D.
Inverbervie	NO87	1835-1845	New Statistical Account
St Cyrus	NO76	1820-1859	Stephen

**E057 *Carum carvi* L.****Caraway****Local Origin** Archaeophyte**National Status** EN, NR, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1880 to 1919**Habitat** Farmyards.

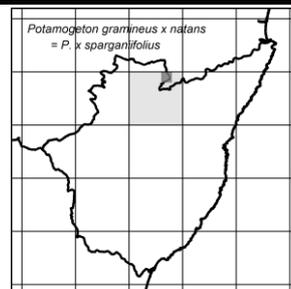
**Commentary** Biennial, the stems erect, the leaves twice- to thrice-pinnate smelling distinctively when crushed, the inflorescence a twice-divided umbel with few bracts or bracteoles below the divisions, the former sometimes divided, the flowers with white petals forming flattened, ridged seeds. Locally extinct and long lost, formerly recorded as an escape from herb gardens. Elsewhere widespread but very local, mostly in the south, much declined and only seven recent records in Scotland, the closest being from the Bin of Cullen (Banffshire) and near Alloa (East Perthshire) suggesting local re-establishment is most likely to result from fresh escapes.



Location	Grid Ref	Year	Recorder / Reporter
Maryculter Parish [perhaps in NJ80]	NO89	1880-1919	Trail, J.
Banchory-Devenick Parish [perhaps in NJ90]	NO99	1880-1919	Trail, J.
St Cyrus	NO76	1861	

**E058 *Potamogeton gramineus x natans* = *P. x sparganiifolius* Laest. ex Fr.****Ribbon-leaved Pondweed****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1873 to 1873**Habitat** Still or moving freshwater in the lowlands.

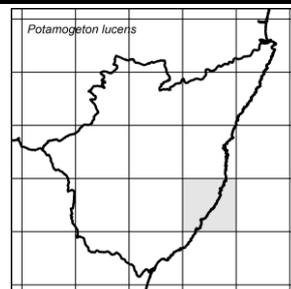
**Commentary** Perennial rooted aquatic with petiolate, opaque floating leaves but characterised most strongly by the strap-shaped underwater leaves having narrow blades either side of the midrib. Locally extinct, having been lost from the Loch of Park in the mid to late 1800s along with several other species. Elsewhere the records for this hybrid are widespread but very thinly scattered, it is long-known in and recently recorded from the lower reaches of the River Don (South Aberdeenshire) but seems unlikely to find suitable habitat in Kincardineshire.



Location	Grid Ref	Year	Recorder / Reporter
Loch of Park	NO7698	1873	Sim, J.; Sim, T.

**E059 *Potamogeton lucens* L.****Shining Pondweed****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1859**Habitat** Basic lochs.

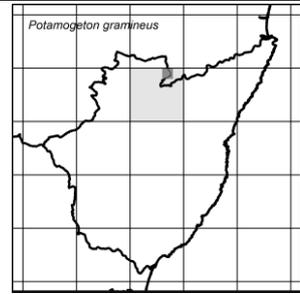
**Commentary** Aquatic perennial lacking floating leaves, the submerged leaves large, net-veined with large, rigid, winged stipules, the inflorescence a dense cylindrical spike held above the water on a thick stem. Locally extinct, only recorded once. Elsewhere widespread but infrequent in the south-east, very local elsewhere and long-disappeared from eastern Scotland, the nearest current sites being near Crieff (Mid-Perthshire) and the River Tweed (Berwickshire) suggesting the species is very unlikely to return unaided to Kincardineshire.



Location	Grid Ref	Year	Recorder / Reporter
Arbuthnott Parish [perhaps in NO77]	NO87	1820-1859	Chrystall, L.

**E060 *Potamogeton gramineus* (L.) Schweigg. & Körte****Various-leaved Pondweed****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1880**Habitat** Ponds and lochs.

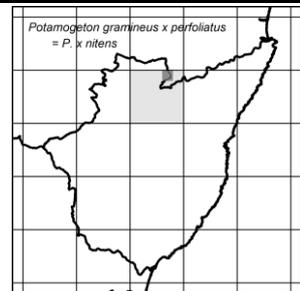
**Commentary** Aquatic perennial with floating and submerged leaves, the latter unstalked with shallowly toothed margins and rigid stipules jutting at an angle to the stems, the inflorescence a dense cylindrical spike held aerially or floating on the surface. Locally extinct, only at Loch of Park where it was recorded by eight different people but lost from there in the mid to late 1800s along with several other species. Elsewhere widespread but infrequent in Scotland, very local elsewhere, the nearest recent records from Loch of Kinnordy (Angus), Aboyne Loch and the River Don at Kintore (South Aberdeenshire) suggest the species could return to Kincardineshire unaided.



Location	Grid Ref	Year	Recorder / Reporter
Loch of Park	NO7698	1880	King, B.

**E061 *Potamogeton gramineus* x *perfoliatus* = *P. x nitens* Weber****Bright-leaved Pondweed****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1874 to 1874**Habitat** Lochs or rivers.

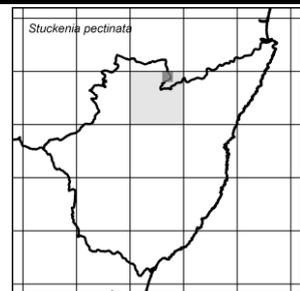
**Commentary** Aquatic perennial with both floating and submerged leaves, the latter typically both clasping the stem and with a pointed apex, the stipules broad and held stiffly away from the stem, the inflorescences a dense cylindrical mass of tiny flowers that do not set seed. Locally extinct, only recorded once at Loch of Park and lost from there in the mid to late 1800s along with several other species. Elsewhere, although this is our most frequent hybrid pondweed, it is still local and mostly in the north, the closest recent local records being from Loch Kinnord in 1988 and the River Don at Kintore in 2005 (South Aberdeenshire) suggest that unaided recolonisation is possible but in the absence of one parent will likely be from transported vegetative material.



Location	Grid Ref	Year	Recorder / Reporter
Loch of Park	NO7698	1874	Sim, J.

**E062 *Stuckenia pectinata* (L.) Börner****Fennel Pondweed****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1849 to 1849**Habitat** Ponds and lochs.

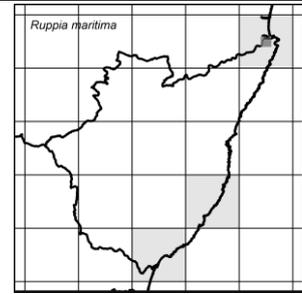
**Commentary** Aquatic perennial without floating leaves, the stems thin and much-branched, the submerged very narrow, linear, with open sheaths that release the stem which, in combination with the stipules, gives the impression of a longer leaf with an angle mid-way, the inflorescence narrowly cylindrical but rather lax and borne on a weak stalk so usually floating on the surface. Locally extinct, only recorded once from the Loch of Park and lost from there in the mid to late 1800s along with several other species. Elsewhere it is widespread and sometimes frequent in lowland areas, the recent records from Rescobie and Balgavies Lochs (Angus) also both Meikle and Cotehill Lochs (North Aberdeenshire) suggesting an unaided return to Kincardineshire is possible.



Location	Grid Ref	Year	Recorder / Reporter
Loch of Park	NO7698	1849	Lindsay, W.

**E063 *Ruppia maritima* L.****Beaked Tasselweed****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1876**Habitat** Brackish pools.

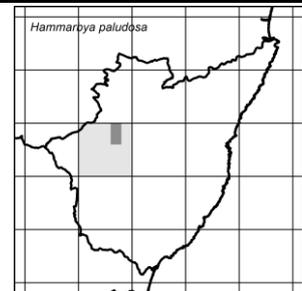
**Commentary** Aquatic perennial, the stems thin and much branched, the leaves long, very narrow and linear, the inflorescence floating on a flexible stalk comprising several peduncles radiating from a single point, each bearing an inconspicuous flower developing into a pear-shaped fruit. Locally extinct, recorded in three hectads but suitable habitat has long been lost and so very unlikely to return to Kincardineshire. Elsewhere a widespread but infrequent coastal species of brackish pools in salt marshes, the nearest recent records are from the mouths of the River Tweed (Berwickshire) and River Findhorn (Moray).



Location	Grid Ref	Year	Recorder / Reporter
Torry, salt marshes at farm	NJ90M	1849	Minto, J.
Inverbervie, near	NO87	1820-1836	Murray, A.
St Cyrus, mouth of R Esk	NO76	1876	Trail, J.

**E064 *Hammarbya paludosa* (L.) Kuntze****Bog Orchid****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1960**Habitat** In sphagnum with some water flow.

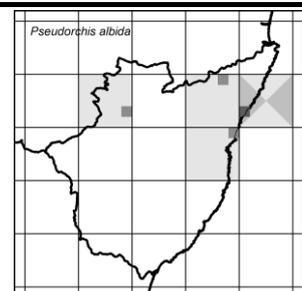
**Commentary** Erect perennial, the stems very short, the leaves nearly basal, ovate, pointing upwards and bearing tiny bulbils on the margin near the tip, the inflorescence loosely cylindrical comprising pale green flowers with a long triangular lower lip. Locally extinct, much collected but apparently lost by 1960 from heathland south of Strachan. Elsewhere widespread but infrequent north of the Highland Boundary Fault, otherwise very local, recorded recently nearby on Tarfside (Angus) and Feughside (South Aberdeenshire) so may be found again soon in Kincardineshire.



Location	Grid Ref	Year	Recorder / Reporter
Bridge of Dye (hectad) [perhaps in NO69]	NO68	1950-1960	
Strachan (Dickie "marsh half mile S of Burn of Bingly")	NO68	1876	Sim, T.

**E065 *Pseudorchis albida* (L.) Á.Löve & D.Löve****Small-white Orchid****Local Origin** Native**National Status** VU, -, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1790 to 1979**Habitat** Grazed grassland on neutral soils.

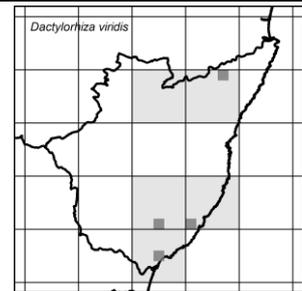
**Commentary** Erect perennial, the leaves decreasing in size up the stem, the inflorescence densely cylindrical, comprising tiny white flowers with a three-lobed lower lip. Locally extinct, once abundant very locally, only ever known from three sites but lost from the last of these in the early 1980s. Elsewhere widespread but infrequent north of the Highland Boundary Fault, otherwise very local, much decreased and not recorded recently from many former sites, still present at a few sites in Angus and near Huntly (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Newtonhill, marsh at Mains of Monduff	NO9092	1979	Marren, P.
Muchalls, one and a half miles South	NO8989	1820-1859	Stephen
Kingcausie, Corbie Den	NO8698	1880-1919	Trail, J.
Strachan, moor below Blackness	NO6993	1872	Sim, J.

**E066 *Dactylorhiza viridis* (L.) R.M.Bateman, Pridgeon & M.W.Chase****Frog Orchid****Local Origin** Native**National Status** VU, -, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1967**Habitat** Unimproved, base-flushed grassland.

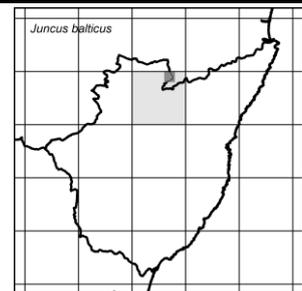
**Commentary** Perennial, the stems short, leaves few, spirally arranged, the inflorescence laxly cylindrical and often flushed reddish-purple, each flower with three sepals forming a hood and a downward pointing lip with a distinct notch at the bottom. Locally extinct, recorded from four different hectads and long-lost from three of these. Elsewhere widespread but rather local, much diminished, in lowland East Scotland it has recently been recorded near Arbroath (Angus) and from Sands of Forvie (North Aberdeen), and with the nearest recent upland record from Tarfside (Angus) it may recolonise Kincardineshire unaided.



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus [presumably NNR]	NO76	1967	Morgan, N.
Laurencekirk	NO77	1860	
Garvock, near kirk	NO7470	1820-1859	Stephen
Moor of Benholme [perhaps in NO76, NO87]	NO77	1820-1859	Stephen
Benholm, Annie's Dam	NO8071	1903	Somerville, A.
Banchory [perhaps in NO69]	NO79	1820-1859	Adams, F.
Kingcausie, Corbie Den, upper part	NO8698	1820-1859	Dickie, G.

**E067 *Juncus balticus* Willd.****Baltic Rush****Local Origin** Native**National Status** -, NS, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1876**Habitat** Damp coastal sands or marshes.

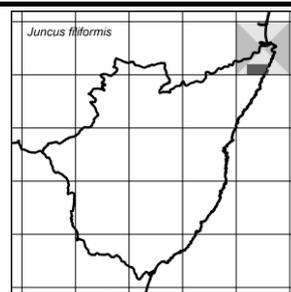
**Commentary** Perennial with linear rhizomes giving rise to equally-spaced shoots, the stems thin and stiffly erect, the leaves reduced to basal sheaths, the inflorescence apparently arising from a point about three-quarters of the way up the stem, with long slender pedicels each topped by rather few brownish flowers. Locally extinct, only recorded once and lost from there in the mid to late 1800s along with several other species. Elsewhere very local, almost restricted to coastal areas in the north, the recent records from the Ythan Estuary (North Aberdeenshire) to the north and Barry Links and inland at nearby Dun's Dish (Angus) in the south suggest the species has the potential to be found again in Kincardineshire.



Location	Grid Ref	Year	Recorder / Reporter
Loch of Park, South shore	NO7698	1876	Trail, J.

**E068 *Juncus filiformis* L.****Thread Rush****Local Origin** Native**National Status** -, NS, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1850 to 1987**Habitat** Trampled water margins.

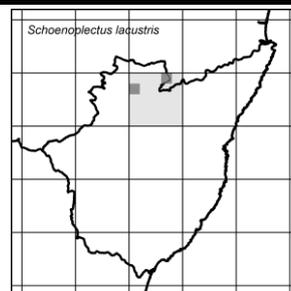
**Commentary** Small perennial spreading from underground rhizomes, the stems narrow, erect and apparently leafless, the inflorescence rather diffuse, over-topped by a long bract resembling a continuation of the stem. Locally extinct, only recorded from one site which was lost to the construction of the road linking Aberdeen Harbour to the now A90, the attempted transplant in 1987 failing due to the long-term unsuitability of the recipient site. Elsewhere very local, mostly in the north and west, the closest known sites at present are Loch Leven (Fife & Kinross) and near Loch Ness (Easternness), suggesting unaided recolonisation is very unlikely any time soon.



Location	Grid Ref	Year	Recorder / Reporter
Loirston Loch, tiny pool to east, transplant soon failed	NJ940011	1987	Bale, D.; Urquhart, U.
Loirston Loch, patch of wet turf at edge	NJ9301	1980	Ferreira, C.; Roger, G.

**E069 *Schoenoplectus lacustris* (L.) Palla****Common Club-rush****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1871**Habitat** Loch margins.

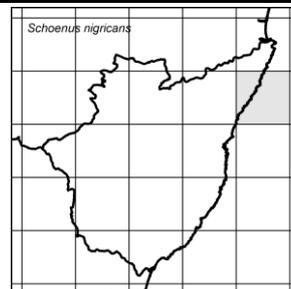
**Commentary** Rhizomatous stand-forming perennial, apparently leafless, the stems tall, robust, green, the inflorescence open with clusters of flowers on short branches, the glumes brown and smooth not papillose, the stigmas three per flower. Locally extinct, recorded from two former lochs and lost from these in the mid to late 1800s along with several other species. Elsewhere widespread, frequent in some areas particularly in the south and west, its closest current sites are near Forfar and on Tarfside (Angus) also near Dinnet and Dyce (South Aberdeenshire), so has the capacity to return unaided.



Location	Grid Ref	Year	Recorder / Reporter
Loch of Leys	NO7097	1820-1859	Adams, F.
Loch of Park	NO7698	1871	Sim, T.

**E070 *Schoenus nigricans* L.****Black Bog-rush****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1859**Habitat** Base-flushed peat.

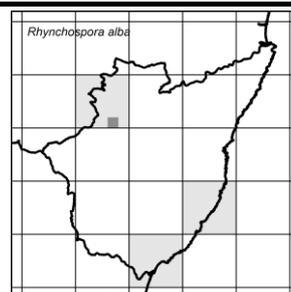
**Commentary** Densely tufted perennial, the cylindrical leaves very narrow, persistent long after the green colour has left them making the tufts look white and wispy, the stems stiffly erect, the inflorescence tightly clustered, brown, overtopped by a green bract. Locally extinct, long lost, only once having been recorded. Elsewhere widespread, frequent in north-west Scotland but otherwise local with very few extant sites in the east Scotland including Scotstown Moor LNR (South Aberdeenshire), north of Huntly (North Aberdeenshire), near St Andrews (Fife & Kinross) and Pitlochry (East Perthshire) suggesting the species is very unlikely to return unaided to Kincardineshire.



Location	Grid Ref	Year	Recorder / Reporter
Findon, wet hollow at base of seacliffs opposite to	NO99	1820-1859	Dickie, G.

**E071 *Rhynchospora alba* (L.) Vahl****White Beak-sedge****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1835 to 1948**Habitat** Wet, acid peat.

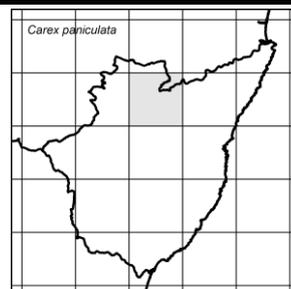
**Commentary** Tufted, sometimes stand-forming, perennial, the leaves linear, channelled, rather few, the stems stiffly erect, the inflorescence scattered, small, white clusters of flowers with white perianths, the whole sometimes overtopped by a green bract. Locally extinct, only recorded from one site and long lost from there. Elsewhere widespread, frequent in north-west Scotland but otherwise local with very few extant sites in the east Scotland, its closest current sites are Methven Moss (Mid Perthshire) and Dun and Lockshaw Mosses (West Perthshire), suggesting it is very unlikely to return to Kincardineshire unaided.



Location	Grid Ref	Year	Recorder / Reporter
Strachan, roadside half mile S of Bogandreep	NO6690	1857	Sutherland
Gourdon, saltmarsh	NO87	1876	Trail, J.
St Cyrus, saltmarsh	NO76	1948	Burnett, E.

**E072 *Carex paniculata* L.****Greater Tussock-sedge****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1847 to 1847**Habitat** Wet, flushed ground.

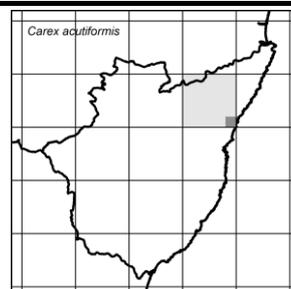
**Commentary** Tufted perennial forming dense tussocks about 1 m in diameter, the leaves linear, the stems spreading outward and ending with inflorescence comprising scattered groups of short stalked spikelets. Locally extinct, only recorded from one site and long lost from there, though a second old record from "Howe of the Mearns" may also be from Kincardineshire. Elsewhere widespread and frequent in many lowland areas, its closest current sites are Peel of Lumphanan (South Aberdeenshire), also around Forfar and Kirriemuir (Angus), so may return to Kincardineshire unaided.



Location	Grid Ref	Year	Recorder / Reporter
Durris	NO79	1847	

**E073 *Carex acutiformis* (L.) Schweigg. & Körte****Lesser Pond-sedge****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1904**Habitat** Pond margins, marshes.

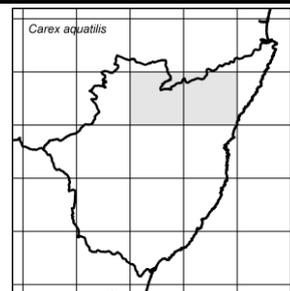
**Commentary** Stand-forming perennial, the leaves long, linear, with a cell-like pattern just above the ligule, the stems erect, the inflorescence comprising narrow female spikelets held below the male spikelets, the former with three stigmas per utricle, the latter with obtuse glumes. Locally extinct, only ever known from one site and long lost from there. Elsewhere widespread and mostly frequent from the Scottish Central Belt southwards, local elsewhere, the closest established site is Balgavies Loch (Angus) and though recently discovered near Dyce (South Aberdeenshire) it seems unlikely to return unaided to Kincardineshire in the near future.



Location	Grid Ref	Year	Recorder / Reporter
Muchalls, Dickie "Marshes by the sea"	NO8990R	1904	Trail, J.

**E074 *Carex aquatilis* Wahlenb.****Water Sedge****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1859**Habitat** Marshes, riversides.

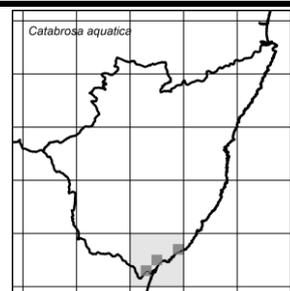
**Commentary** Tufted or stand-forming perennial, the stems erect, the leaves long, linear, dark green beneath, the inflorescence comprising male spikes above female spikes, the latter long and narrow with long, rather broad-based, leaf-like bracts, the utricles each with two stigmas. Locally extinct, recorded from by the River Dee but long lost from there. Elsewhere widespread, mostly in upland areas or river valleys draining them, infrequent in Scotland and very local elsewhere, recorded recently by the River North Esk (Angus) upstream of the Kincardineshire boundary, as well as in upper Deeside (South Aberdeenshire) and by the River Don (North Aberdeenshire), suggesting the species may well be re-found in Kincardineshire.



Location	Grid Ref	Year	Recorder / Reporter
<i>Banchory, by R Dee [perhaps in NO69]</i>	NO79	1820-1859	Brichan, J.
<i>Maryculter, riverside [probably R Dee, perhaps in NJ80]</i>	NO89	1820-1859	Fleming, A.

**E075 *Catabrosa aquatica* (L.) P.Beauv.****Whorl-grass****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1859**Habitat** Marshes protected from grazing.

**Commentary** Stoloniferous perennial, the stems succulent, often reddish, the leaves with a large membranous ligule, broad, tapering abruptly to the tip, the panicle diffuse with branches in whorls, the spikelets small, few-flowered with broad-tipped glumes. Locally extinct, always having been rare and long-lost from its two coastal sites. Elsewhere widespread but infrequent, often coastal, recorded recently from near Kirriemuir (Angus) also near Insch and St. Combs (North Aberdeenshire) but much reduced and so unlikely to become re-established.



Location	Grid Ref	Year	Recorder / Reporter
<i>St Cyrus, foot of Brae of Commieston</i>	NO76G	1820-1859	Croall, A.
<i>Johnshaven, marsh by sea below W Mathers</i>	NO7866	1820-1859	Stephen

**E076 *Aristavena setacea* (Huds.) F.Albers & Butzin****Bog Hair-grass****Local Origin** Native**National Status** -, NS, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1871 to 1919**Habitat** Wet bogs.

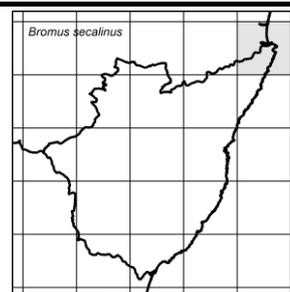
**Commentary** Perennial forming small dense tufts, the leaves very fine with long, narrow, pointed ligules, the stems mainly erect, the inflorescence a diffuse panicle with fine branches, the spikelets small with two vertically well-separated florets, the lemmas long-toothed with the longest teeth at the sides. Locally extinct, always having been rare and now long-lost. Elsewhere very local except in the far north-west of Scotland, the nearest recent records are one from Glen Clova (Angus) and from several sites in Speyside (Moray and Easterness) hence unlikely to return to Kincardineshire in the near future.



Location	Grid Ref	Year	Recorder / Reporter
<i>Nigg, Loch of Loirston, seldom elsewhere</i>	NJ9301	1880-1919	Trail, J.
<i>Strachan (earlier records state Dalbreck)</i>	NO69SE	1878	Sim, T.

**E077 *Bromus secalinus* L.****Rye Brome****Local Origin** Archaeophyte**National Status** NT, -, SBL**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1919**Habitat** Arable land, waste ground.

**Commentary** Tall annual, the stems erect or ascending, the leaves linear, hairy, the inflorescence open and leaning to one side, the spikelets large, chunky, the lemmas with awns about the same length as the membranous part and angled outwards to give the spikelet a spiky appearance. Locally extinct, little recorded and now long lost. Elsewhere widespread and rather frequent in lowland England, in Scotland very local and much diminished, with only two recent records from north of the Firth of Forth, also from near Glamis (Angus) and Kirkcaldy (Fife & Kinross) suggesting the species is unlikely to be re-found in Kincardineshire in the near future.

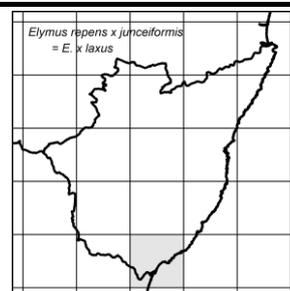


Location	Grid Ref	Year	Recorder / Reporter
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Nigg Parish	NJ90	1880-1919	Trail, J.
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**E078 *Elymus repens x junceiformis* = *E. x laxus* (Fr.) Melderis & D.C.McClint.****A Hybrid Couch****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1959 to 1959**Habitat** Coastal sands or shingle.

**Commentary** Rhizomatous perennial, the stems erect or ascending, the leaves flat or in-rolled potentially with both long hairs and minute papillae on the ribs, the inflorescence unbranched, the spikelets large, flattened with narrow edges on opposite sides of the rachis and widely separated, sometimes the spikelets falling off and sometimes the central rachis breaking up at maturity. Locally extinct, only having been recorded once. Elsewhere widespread but infrequent at the coast, the closest recent records being from Barry Links (Angus) and near St Combs (North Aberdeenshire), with both parent species being well established along the Kincardineshire coast this hybrid may be recorded again in the near future.

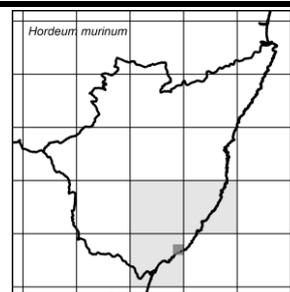


Location	Grid Ref	Year	Recorder / Reporter
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St Cyrus, edge of saltmarsh	NO76	1959	Duncan, U.
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**E79 *Hordeum murinum* L.****Wall Barley****Local Origin** Archaeophyte**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1820 to 1859**Habitat** Waste ground.

**Commentary** Erect annual with linear leaves, the inflorescence with apparently unstalked spikelets in two rows of three florets, the lemmas all with long awns of approximately equal lengths. Locally extinct, formerly found in the south-east corner of Kincardineshire but long lost from there. Elsewhere widespread and frequent in the south, becoming less common, mostly eastern and coastal further north, recorded recently from Montrose (Angus) and so may well be found again locally soon.



Location	Grid Ref	Year	Recorder / Reporter
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Johnshaven, between there and Brotherton	NO76Y	1820-1859	Croall, A.
Arbuthnott [perhaps in NO77]	NO87	1820-1836	Murray, A.
Gourdon	NO87	1820-1836	Murray, A.

## REGISTER Part 3: critical species (Brambles, Dandelions and Hawkweeds) of conservation concern in Kincardineshire.

### C001 *Rubus anglocandicans* A.Newton

**A Bramble**

**Local Origin** Native

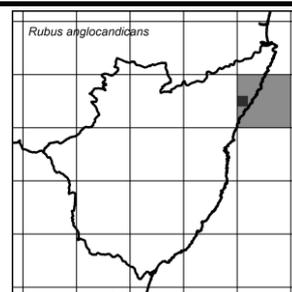
**National Status** -, -, -

**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1

**Earliest to Latest Record (or start and end of intervals)** 2004 to 2020

**Habitat** Hedgerows.

**Commentary** Locally rare, known from a single site at Cammachmore. Elsewhere only found in central and eastern England.



Location	Grid Ref	Year	Recorder / Reporter
Cammachmore, roadside	NO90019488	2020	Welch, D.

### C002 *Rubus dasyphyllus* (W.M.Rogers) E.S.Marshall

**A Bramble**

**Local Origin** Native

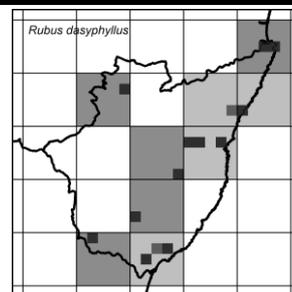
**National Status** -, -, -

**Local Status** LS; 10 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 5/9/8

**Earliest to Latest Record (or start and end of intervals)** 1994 to 2022

**Habitat** Scrubby places including hedges, railway embankments and woodland.

**Commentary** Locally scarce, found at scattered lowland sites. Elsewhere widespread but apparently absent from many regions, most frequently recorded in northern England and with a stronghold in north-east Scotland.



Location	Grid Ref	Year	Recorder / Reporter
Glassel, Brathens, plantation entrance	NO689978	2022	Welch, D.
Tullos, railway embankment	NJ952042	2013	Welch, D.
Torry, roadside below Battery	NJ96340566	2022	Elston, D.
Muchalls, roadside (N side)	NO900920	2013	Welch, D.
Stonehaven, railway carpark shrubbery	NO864862	2020	Welch, D.
Fetteresso, new hedge at Baulk	NO82168649	2018	Welch, D.
Drumlithie, hedge	NO785809	2020	Welch, D.
Fettercairn, Edzell Airbase village, roadside	NO62346945	2019	Welch, D.
St Cyrus, roadside	NO731657	2004	Welch, D.
St Cyrus, dykeside at Lauriston	NO760668	2011	Welch, D.

### C003 *Rubus errabundus* W.C.R.Watson

**A Bramble**

**Local Origin** Native

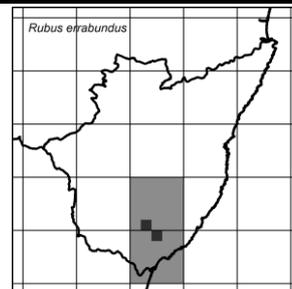
**National Status** -, -, -

**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1

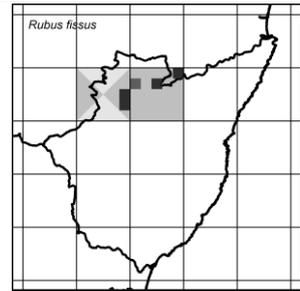
**Earliest to Latest Record (or start and end of intervals)** 2007 to 2022

**Habitat** Roadsides.

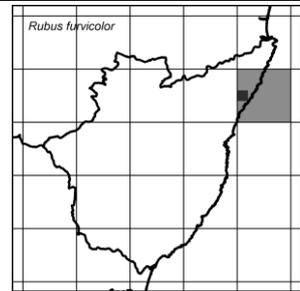
**Commentary** Locally rare, known from two sites at Garvock. Elsewhere records have a patchy distribution including a small number of sites in North Aberdeenshire and a larger cluster in the Scottish Central Belt.



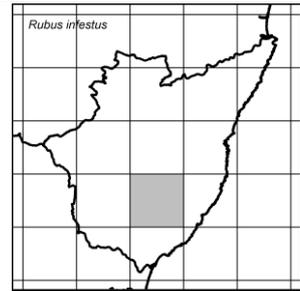
Location	Grid Ref	Year	Recorder / Reporter
Garvock, roadside by plantation	NO748695	2007	Welch, D.
Garvock, roadside by plantation	NO72977026	2022	Welch, D.

**C004 *Rubus fissus* Lindl.****Cleft Bramble****Local Origin** Native**National Status** -, -, -**Local Status** LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/3/3**Earliest to Latest Record (or start and end of intervals)** 1878 to 2021**Habitat** Woodland and scrub, particularly by rivers.**Commentary** Locally rare, only recorded in the valley of the River Dee and its tributaries. Elsewhere with thinly scattered records, more densely recorded in Scotland than England and Wales.

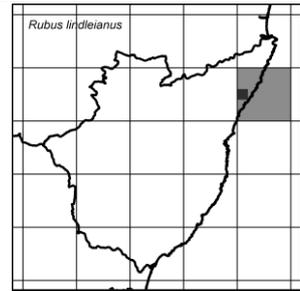
Location	Grid Ref	Year	Recorder / Reporter
Durris, Park Bridge, wooded bank at fishers' entrance	NO797981	2021	Welch, D.
Crathes, riverside	NO743960	2006	Welch, D.
Strachan, below trees by Water of Feugh	NO690932	2004	Welch, D.
Raemoir, Lochton of Leys, roadside	NO708973	1993	Welch, D.

**C005 *Rubus furvicolor* Focke****A Bramble****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2006 to 2013**Habitat** Hedgerows.**Commentary** Locally rare, known from a single site at Cammachmore. Elsewhere only recorded from Scotland, the highest density of records being in South and North Aberdeenshire, Banffshire and Moray.

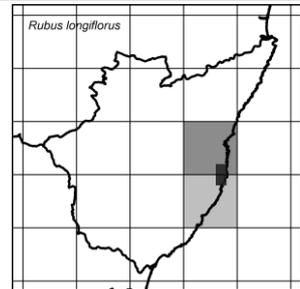
Location	Grid Ref	Year	Recorder / Reporter
Cammachmore, roadside	NO90039486	2013	Welch, D.

**C006 *Rubus infestus* Weihe ex Boenn.****A Bramble****Local Origin** Native**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1970 to 1988**Habitat** Hedgerows, open woodland.**Commentary** Locally with no recent records, the only record being derived from a Newton and Edees distribution map. Elsewhere mostly recorded in northern England and southern Scotland, the closest recent records being from Coupar Angus (East Perthshire), near Aberdeen (South Aberdeenshire) and near Eilon (North Aberdeenshire) with less recent records from near Dundee (Angus).

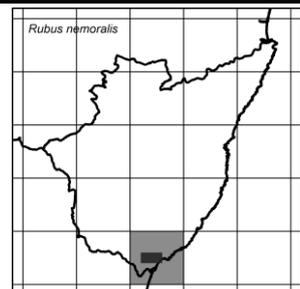
Location	Grid Ref	Year	Recorder / Reporter
Auchenblae (hectad)	NO77	-1988	Welch, D.

**C007 *Rubus lindleianus* Lees****A Bramble****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2004 to 2020**Habitat** Hedgerows.**Commentary** Locally rare, known from a single site at Cammachmore. Elsewhere records have a very patchy distribution, the closest recent records being from near and west of Glasgow.

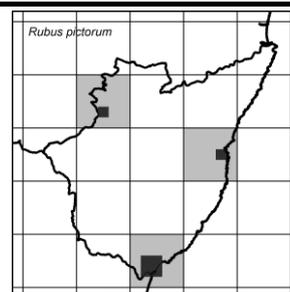
Location	Grid Ref	Year	Recorder / Reporter
Cammachmore, roadside	NO90179482	2020	Welch, D.

**C008 *Rubus longiflorus* D.Welch****A Bramble****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 2020 to 2020**Habitat** Roadsides.**Commentary** Locally rare, known from two sites close to the coast which motivated the description of this as a new species. Elsewhere known only from Angus and the Mearns, with a single old specimen from Bridge of Don in South Aberdeenshire.

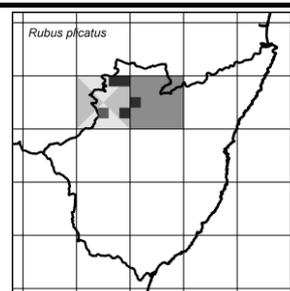
Location	Grid Ref	Year	Recorder / Reporter
Catterline, coastal brae	NO86847816	2020	Welch, D.
Crawton, roadside	NO87778026	2020	Welch, D.

**C009 *Rubus nemoralis* P.J.Müll.****A Bramble****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/2/2**Earliest to Latest Record (or start and end of intervals)** 2004 to 2020**Habitat** Roadsides.**Commentary** Locally rare, known from a single site at St Cyrus. Elsewhere records have a patchy distribution, in Scotland mostly western with isolated records from near Errol and Alyth (East Perthshire), Monymusk (South Aberdeenshire) and Mintlaw (North Aberdeenshire).

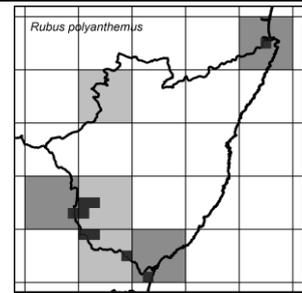
Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, roadside	NO742649	2020	Welch, D.

**C010 *Rubus pictorum* Edees****A Bramble****Local Origin** Native**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 3/6/7**Earliest to Latest Record (or start and end of intervals)** 1993 to 2018**Habitat** Roadsides.**Commentary** Locally scarce, with a cluster of records from St Cyrus. Elsewhere recorded in Aberdeen and Dyce (South Aberdeenshire), otherwise almost restricted to central Scotland and South Wales.

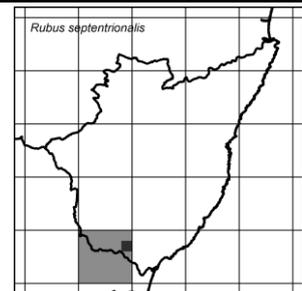
Location	Grid Ref	Year	Recorder / Reporter
Strachan, roadside	NO652922	2007	Welch, D.
St Cyrus, roadside	NO73436396	2016	Welch, D.
St Cyrus, roadside bank	NO74016354	2017	Welch, D.
St Cyrus, roadside	NO72426588	2016	Welch, D.
St Cyrus, roadside	NO742657	2003	Welch, D.
St Cyrus, roadside	NO752653	2011	Welch, D.
Stonehaven, steep brae by coast & nearby roadside	NO877852	2018	Welch, D.

**C011 *Rubus plicatus* Weihe & Nees****Plaited-leaved Bramble****Local Origin** Native**National Status** -, -, -**Local Status** LS; 4 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/4/4**Earliest to Latest Record (or start and end of intervals)** 1876 to 2022**Habitat** Roadsides and woodland edge.**Commentary** Locally scarce, records only from near Banchory or Strachan. Elsewhere widespread but infrequently recorded, the closest recent records being from Old Rayne, Cairnie and near Delgaty (North Aberdeenshire).

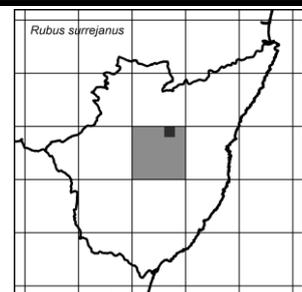
Location	Grid Ref	Year	Recorder / Reporter
Raemoir, plantation edge by road	NO699985	2020	Welch, D.
Banchory, by R Dee below woodland	NO710957	2005	Welch, D.
Glassel, roadside	NO672983	2022	Welch, D.
Strachan, E of (tetrad)	NO6892	2004	Welch, D.
Strachan, roadside in bracken	NO640927	1993	Welch, D.

**C012 *Rubus polyanthemus* Lindeb.****A Bramble****Local Origin** Native**National Status** -, -, -**Local Status** LS; 7 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 4/8/8**Earliest to Latest Record (or start and end of intervals)** 1993 to 2022**Habitat** Scrubby places including hedges, railway embankments and woodland.**Commentary** Locally scarce, with one site in the north and the remainder in the south. Elsewhere widespread but with a patchy distribution to records, in Scotland mainly western but with isolated eastern sites near Ladybank (Fife), Ellon and Forgue (North Aberdeenshire).

Location	Grid Ref	Year	Recorder / Reporter
Tullos, railway embankment	NJ952042	2007	Welch, D.
Marykirk, roadside	NO687652	2022	Welch, D.
Morphie, by R North Esk	NO72116185	2015	Welch, D.
Fettercairn, woodland by R North Esk opposite Edzell	NO603690	2002	Welch, D.
Fettercairn, Balfour, roadside bank to SW	NO593725	2021	Welch, D.
Fettercairn, Balfour, roadside	NO62087424	2020	Welch, D.
Fettercairn, Edzell Airbase, roadside along ditch	NO624686	2015	Welch, D.

**C013 *Rubus septentrionalis* W.C.R.Watson****Stellately-hairy Bramble****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2016 to 2022**Habitat** Railway embankments, hedgerows.**Commentary** Locally rare, only recorded from near Marykirk. Elsewhere recorded mostly from Scotland where it has appears to have a widespread but patchy distribution, the closest recent records being from near Dundee (Angus), Coupar Angus (East Perthshire), also Alford, Newmachar and Balmedie (South Aberdeenshire).

Location	Grid Ref	Year	Recorder / Reporter
Marykirk, railway embankment	NO68556693	2022	Welch, D.

**C014 *Rubus surrejanus* W.C.Barton & Ridd.****A Bramble****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 2021 to 2021**Habitat** Scrubby ground.**Commentary** Locally rare, first found in 2020 and formally recorded in 2021. Elsewhere mostly found in south England with additional outlying records from near Ythanwells, Oldmeldrum and Cruden Bay (North Aberdeenshire).

Location	Grid Ref	Year	Recorder / Reporter
Durris, shelter belt by TV mast	NO76468997	2021	Welch, D.

**C015 *Rubus ulmifolius* Schott**

Elm-leaf Blackberry

Local Origin Native

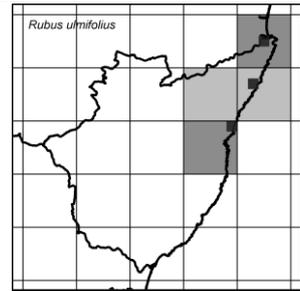
National Status -, -, -

Local Status LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2

Earliest to Latest Record (or start and end of intervals) 1988 to 2023

Habitat Scrubby ground by current or former railway lines.

**Commentary** Locally rare, seemingly having been brought in along the rail network. Elsewhere widespread and frequently recorded in the southern half of Britain, apparently much more restricted further north, the closest recent records being from Inverarity and Gallowfauld (Angus), Finzean (South Aberdeenshire), also Inverurie plus eight other locations in North Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Tullos, railway embankment by Kirkhill Place	NJ95360437	2020	Elston, D.
Portlethen, wooded railway embankment	NO926971	2006	Welch, D.
Stonehaven, Cowie, N end of approach road from A90	NO88818814	2023	Elston, D.
Maryculter (hectad)	NO89	-1988	Welch, D.

**C016 *Rubus vestitus* Weihe**

A Bramble

Local Origin Native

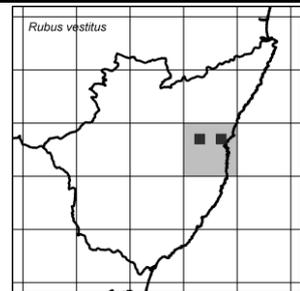
National Status -, -, -

Local Status LR; 3 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/2/2

Earliest to Latest Record (or start and end of intervals) 1994 to 2021

Habitat Unmanaged scrubby ground, railway lines.

**Commentary** Locally rare, only recorded in or close to Stonehaven and likely having entered along the railway network. Elsewhere widespread and frequently recorded in the southern half of Britain, apparently much more restricted further north, the closest recent records being from Gallowfauld (Angus), Torphins and Aberdeen (South Aberdeenshire), also Esslemont plus four other locations in North Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Rickarton, Swanley, waste ground near cottage	NO838872	2011	Welch, D.
Stonehaven, railway embankment	NO862861	2021	Welch, D.
Stonehaven, grassland on edge of development site	NO86188733	2021	Elston, D.

**C017 *Taraxacum argutum* Dahlst.**

Sharp-toothed Dandelion

Local Origin Native

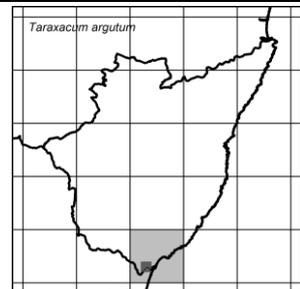
National Status -, -, -

Local Status NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0

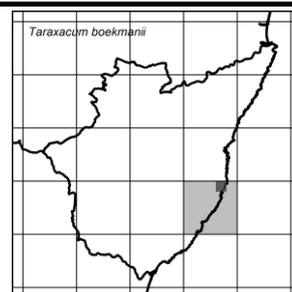
Earliest to Latest Record (or start and end of intervals) 1997 to 1997

Habitat Mortared stonework.

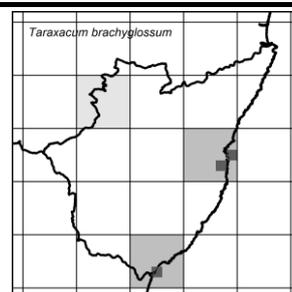
**Commentary** Locally with no recent records but data deficient, only once recorded. Elsewhere widespread but with only thinly scattered records, the closest recent records being from near Boddin and Glen Esk (Angus).



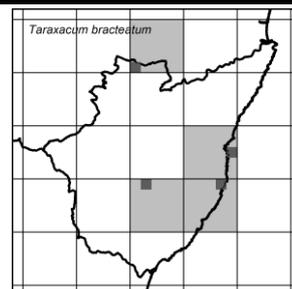
Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, buttress of bridge over R North Esk	NO724621	1997	Welch, D.

**C018 *Taraxacum boeckmanii* Borgv.****Böckman's Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1997 to 1997**Habitat** Roadsides, grassy places, open woodland.**Commentary** Locally rare but data deficient, only recorded once. Elsewhere widespread but with records thinly scattered and absent from many regions, the closest recent records being small clusters round Blairgowrie (East Perthshire) and Perth (East and Mid Perthshire), also with three less recent records from North Aberdeenshire.

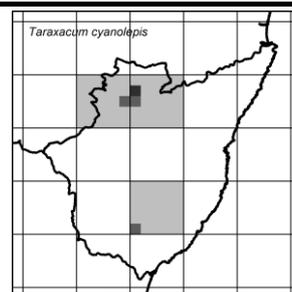
Location	Grid Ref	Year	Recorder / Reporter
Catterline, coastal grassland	NO870782	1997	Welch, D.

**C019 *Taraxacum brachyglossum* (Dahlst.) Raunk.****Purple-bracted Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1926 to 1996**Habitat** Coastal grasslands.**Commentary** Locally with no recent records but data deficient, recorded only from two coastal sites and one inland. Elsewhere widely distributed but rather infrequently recorded, mostly coastal in Scotland, the closest records being from Lunan Bay (Angus), also recorded less recently Collieston and Cruden Bay (North Aberdeenshire).

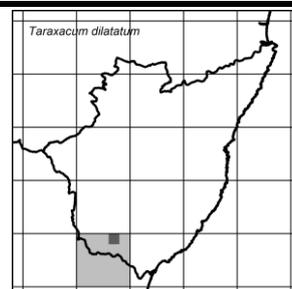
Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, rear dunes	NO745639	1993	Welch, D.
Dunnottar, path at bay N of Castle	NO880844	1996	Welch, D.
Strachan [perhaps in NO68]	NO69	1926	Druce, G.

**C020 *Taraxacum bracteatum* Dahlst.****Dark-green Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1994 to 1998**Habitat** Damp grassland.**Commentary** Locally with no recent records but data deficient, recorded once each from four widely scattered sites. Elsewhere widespread but infrequently recorded, with recent records from Lunan Bay and three sites near Kirkmichael (Angus), also recorded less recently from Insch and five other sites in North Aberdeenshire.

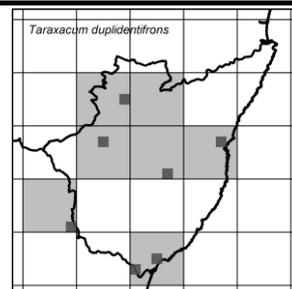
Location	Grid Ref	Year	Recorder / Reporter
Raemoir, roadside	NJ718003	1997	Welch, D.
Auchenblae, roadside	NO725787	1994	Welch, D.
Dunnottar, flush at coast	NO881843	1996	Welch, D.
Kinneff, roadside	NO860791	1998	Welch, D.

**C021 *Taraxacum cyanolepis* Dahlst.****Bluish-bracted Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** LR(DD); 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1977 to 2017**Habitat** Grassland.**Commentary** Locally rare but data deficient, recorded from managed grasslands and a ruderal site. Elsewhere widespread but infrequently recorded, the closest recent records being from near Dundee and Blairgowrie (East Perthshire), also recorded less recently from near Newburgh, Inch and four other sites in North Aberdeenshire.

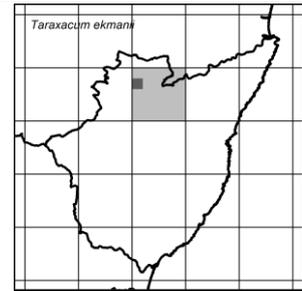
Location	Grid Ref	Year	Recorder / Reporter
<b>Banchory, mown grassland</b>	<b>NO701969</b>	<b>2017</b>	<b>Welch, D.</b>
Banchory, banks of R Dee	NO6995	1977	Duncan, U.
Laurencekirk, railway yard	NO717718	1994	Welch, D.

**C022 *Taraxacum dilatatum* H.Lindb.****Grassland Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1996 to 1996**Habitat** Rough ground.**Commentary** Locally with no recent records but data deficient, recorded only once. Elsewhere widespread but very infrequently recorded particularly in Scotland, the closest recent record being from near Elie (Fife & Kinross).

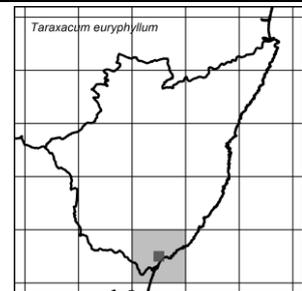
Location	Grid Ref	Year	Recorder / Reporter
Luthermuir, levelled ground	NO668686	1996	Welch, D.

**C023 *Taraxacum duplidentifrons* Dahlst.****Double-toothed Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1976 to 1997**Habitat** Natural grassland.**Commentary** Locally with no recent records but data deficient and one of our most frequently recorded dandelions. Elsewhere widespread, most frequently recorded in northern England, southern and central Scotland, the closest recent records being from Lunan Bay, Carnoustie and near Pearsie (Angus).

Location	Grid Ref	Year	Recorder / Reporter
Banchory, by the Golf Course	NO6995	1977	Duncan, U.
Tilquhillie, near Castle	NO79	1976	Duncan, U.
Auchattie	NO6994	1977	Duncan, U.
Glen Dye, roadside at Scolly's Cross	NO652877	1997	Welch, D.
Fettercairn, rocks by R North Esk at The Burn	NO5971	1977	Duncan, U.
Morphie, Old Red Sandstone outcrop in woodland	NO706637	1994	Welch, D.
St Cyrus NNR	NO7564	1977	Duncan, U.
Glenbervie, policies	NO767805	1996	Welch, D.
Stonehaven, roadside	NO862861	1995	Welch, D.

**C024 *Taraxacum ekmanii* Dahlst.****Ekman's Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1996 to 1996**Habitat** Waste ground, roadsides.**Commentary** Locally with no recent records but data deficient, only once recorded. Elsewhere widespread but infrequently recorded, the closest recent records bring from Lunan Bay (Angus), Kirkmichael, Meikleour and Collace (East Perthshire), and less recently from Tomintoul (Moray).

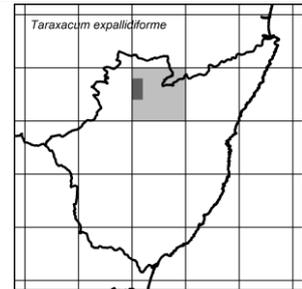
Location	Grid Ref	Year	Recorder / Reporter
Banchory, waste ground	NO709960	1996	Welch, D.

**C025 *Taraxacum euryphyllum* (Dahlst.) Hjelt****Wide-stalked Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1977 to 1977**Habitat** Damp, base-rich sites.**Commentary** Locally with no recent records but data deficient, recorded only once. Elsewhere widespread but patchily recorded with clusters in the Outer Hebrides and Shetland, the closest recent records being from The Cairnwell and Butterstone (East Perthshire), recorded less recently from Glen Doll and near Piperdam (Mid Perthshire), also Newburgh and five other sites in North Aberdeenshire.

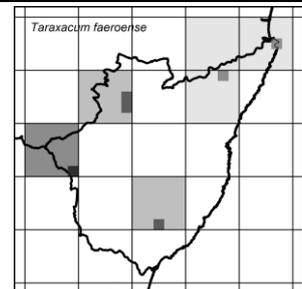
Location	Grid Ref	Year	Recorder / Reporter
St Cyrus NNR	NO7564	1977	Duncan, U.

**C026 *Taraxacum excellens* Dahlst.****Purple-blotched Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1995 to 1995**Habitat** Grassland.**Commentary** Locally rare but data deficient, only recorded once. Elsewhere widespread but very infrequently recorded, the only recent Scottish records being from Kirkmichael (East Perthshire) and Bute (Clyde Islands), with less recent records from near Dunkeld (East Perthshire) and Ellon (North Aberdeenshire).

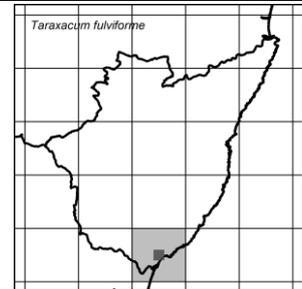
Location	Grid Ref	Year	Recorder / Reporter
Inglismaldie, roadside with <i>Ranunculus ficaria</i>	NO644667	1995	Welch, D.

**C027 *Taraxacum expallidiforme* Dahlst.****Broad-stalked Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1984 to 1996**Habitat** Grassy verges.**Commentary** Locally with no recent records but data deficient, only recorded from Banchory. Elsewhere widespread but infrequently recorded particularly in Scotland, the closest recent records being from near Kirkmichael (East Perthshire) and Elie (Fife & Kinross).

Location	Grid Ref	Year	Recorder / Reporter
Banchory, trackside	NO700956	1996	Welch, D.

**C028 *Taraxacum faeroense* (Dahlst.) Dahlst.****Faeroes Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** LR(DD); 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1849 to 2021**Habitat** Wet heaths and acid grasslands.**Commentary** Locally with only one recent record but data deficient and probably one of our most widely distributed dandelions. Elsewhere recorded recently from several locations in Glen Esk and multiple other sites in Angus.

Location	Grid Ref	Year	Recorder / Reporter
<b>Glen Dye, flush by Hazly Grain</b>	<b>NO5981</b>	<b>2021</b>	<b>Elston, D.</b>
Strachan, marsh at Blackness	NO691929	1994	Welch, D.
Auchattie	NO6994	1977	Duncan, U.
Banchory, edge of Golf Course	NO6995	1977	Duncan, U.
Garvock, marsh by St James` Loch	NO743710	1997	Welch, D.
St Cyrus NNR	NO7564	1977	Duncan, U.
<i>Kingcausie, at Blairs</i>	<i>NJ80</i>	<i>1857</i>	<i>Lynne, J.</i>
<i>Kingcausie, Corbie Den</i>	<i>NO8699</i>	<i>1877</i>	<i>Trail, J.</i>
<i>Nigg Bay</i>	<i>NJ9604</i>	<i>1849</i>	<i>MacGillivray, P.</i>

**C029 *Taraxacum fulviforme* Dahlst.****Green-bracted Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1977 to 1977**Habitat** Dry grassland.**Commentary** Locally with no recent records but data deficient, only recorded once. Elsewhere widespread but very infrequently recorded, the closest recent records being from Lunan Bay (Angus) and Elie (Fife & Kinross) with less recent records from Glen Esk (Angus) and between Peterhead and Fraserburgh (North Aberdeenshire).

Location	Grid Ref	Year	Recorder / Reporter
St Cyrus NNR	NO7564	1977	Duncan, U.

**C030 *Taraxacum fulvum* Raunk.****Cinnamon-fruited Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1977 to 1977**Habitat** Dry grassland.

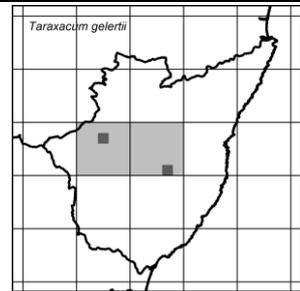
**Commentary** Locally with no recent records but data deficient, only recorded once. Elsewhere widespread but infrequently recorded especially in Scotland with a stronghold in the Outer Hebrides, the closest recent records being from Barry Links (Angus), Elie (Fife & Kinross) and near Collace (East Perthshire), with less recent records from Lunan Bay (Angus) and near Pitlochry (Mid Perthshire).



Location	Grid Ref	Year	Recorder / Reporter
Glensaugh, rocks by the Slack Burn	NO6679	1977	Duncan, U.

**C031 *Taraxacum gelertii* Raunk.****Gelert's Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1994 to 1997**Habitat** Natural grassland.

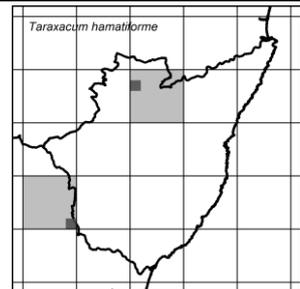
**Commentary** Locally with no recent records but data deficient and recorded only twice. Elsewhere widespread but infrequently recorded, with a cluster of recent records from lowland Mid Perthshire and less recent records from near Oldmeldrum plus seven more sites in North Aberdeenshire.



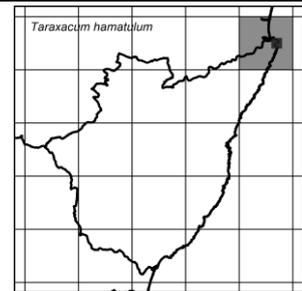
Location	Grid Ref	Year	Recorder / Reporter
Glen Dye, roadside	NO651863	1997	Welch, D.
Glenbervie, roadside	NO763805	1994	Welch, D.

**C032 *Taraxacum hamatiforme* Dahlst.****Asymmetrical Hook-lobed Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1977 to 1996**Habitat** Grassland.

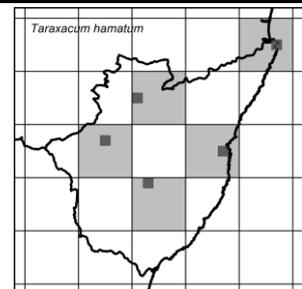
**Commentary** Locally with no recent records, only recorded twice but data deficient. Elsewhere with widespread but infrequently recorded particularly in Scotland, the closest recent records being from Kirkmichael (East Perthshire) with less recent records being from Glasslaw and Keilhill (North Aberdeenshire), near Dufftown and Tomintoul (Banffshire) and near Dunkeld (East Perthshire).



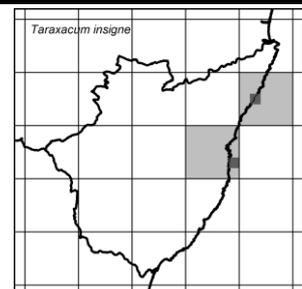
Location	Grid Ref	Year	Recorder / Reporter
Banchory, waste ground	NO709960	1996	Welch, D.
Fettercairn, by R North Esk at The Burn	NO5971	1977	Duncan, U.

**C033 *Taraxacum hamatulum* Hagend., Soest & Zevenb.****Slender Hook-lobed Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** LR(DD); 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 2021 to 2021**Habitat** Grassland.**Commentary** Locally rare but data deficient, a relatively recently differentiated species recorded only once. Elsewhere widespread but infrequently recorded especially in Scotland with all other records at least 100 km distant.

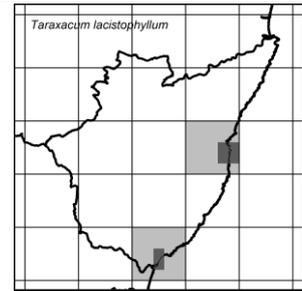
Location	Grid Ref	Year	Recorder / Reporter
Nigg, road verge by Girdle Ness lighthouse	NJ971052	2021	Elston, D.

**C034 *Taraxacum hamatum* Raunk.****Hook-lobed Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1971 to 1997**Habitat** Grassland and woodland.**Commentary** Locally with no recent records but data deficient recorded from five widely separated sites. Elsewhere widespread but infrequently recorded, the closest recent records being from near Blairgowrie, Coupar Angus and Dundee (Mid Perthshire) with less recent records from near Montrose and Kirriemuir (Angus), also Oyne, Ellon and several additional sites in North Aberdeenshire.

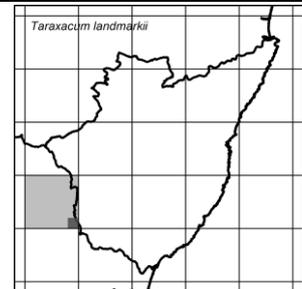
Location	Grid Ref	Year	Recorder / Reporter
Glen Dye, roadside	NO651863	1997	Welch, D.
Banchory, pathside in grassland	NO707957	1994	Welch, D.
Nigg, Girdle Ness, coastal grassland	NJ967057	1995	Welch, D.
Stonehaven, at Harbour	NO8785	1971	Duncan, U.
Auchenblae, roadside	NO723788	1994	Welch, D.

**C035 *Taraxacum insigne* E.Ekman ex M.P.Christ. & Wiinst.****Remarkable Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1971 to 1995**Habitat** Dry grassland near the coast.**Commentary** Locally with no recent records but data deficient and only recorded twice, on both occasions at coastal sites. Elsewhere widespread but infrequently recorded particularly so in Scotland, the closest recent records being from near Blairgowrie and Dundee in Mid Perthshire, with less recent records from near Dunkeld (Mid Perthshire), also near Collieston and Turriff (North Aberdeenshire).

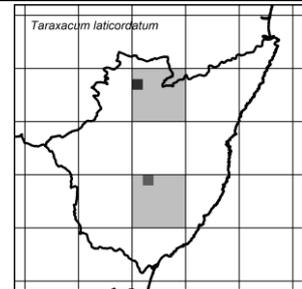
Location	Grid Ref	Year	Recorder / Reporter
Dunnottar, grassland below Old Red Sandstone outcrop	NO880838	1995	Welch, D.
Portlethen Village	NO9395	1971	Duncan, U.

**C036 *Taraxacum lacistophyllum* (Dahlst.) Raunk.****Cut-leaved Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1977 to 1996**Habitat** Coastal grassland, rocks and walls.**Commentary** Locally with no recent records but data deficient and recorded from four different sites near the coast. Elsewhere widespread but infrequently recorded, in Scotland often coastal, recently recorded from Lunan Bay and Barry Links (Angus) and less recently at several sites in lowland Mid Perthshire.

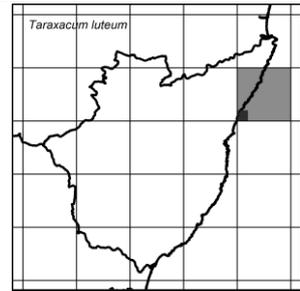
Location	Grid Ref	Year	Recorder / Reporter
St Cyrus railway cutting, grass bank on rock outcrop	NO744639	1993	Welch, D.
St Cyrus, sand dunes	NO7564	1977	Duncan, U.
Dunnottar, coastal grassland N of Castle	NO880840	1996	Welch, D.
Stonehaven, at Harbour	NO8785	1977	Duncan, U.

**C037 *Taraxacum landmarkii* Dahlst.****Landmark Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1976 to 1976**Habitat** Humid grassland and cliffs.**Commentary** Locally with no recent records and data deficient, only once recorded. Elsewhere widespread in the north and west but infrequently recorded, particularly in Scotland with recent records from only five vice counties and less recent records from Mid Perthshire (near Blairgowrie), Kirkaldy (Fife and Kinross), Peterhead and Rhynie (North Aberdeenshire).

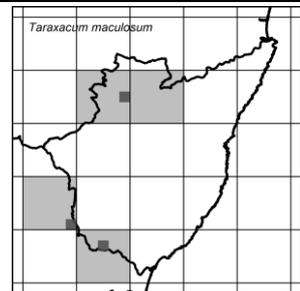
Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, by R North Esk at Gannochy Bridge	NO5971	1976	Duncan, U.

**C038 *Taraxacum laticordatum* Markl.****Decumbent Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1994 to 1994**Habitat** Grassy places, disturbed ground.**Commentary** Locally with no recent records but data deficient, only recorded twice. Elsewhere widespread but infrequently recorded, with substantial clusters of records from parts of England and Wales, the closest recent records being from near Blairgowrie and Dundee (Mid Perthshire) and Elie (Fife and Kinross) with less recent records from the Tore of Troup and around Huntly (North Aberdeenshire).

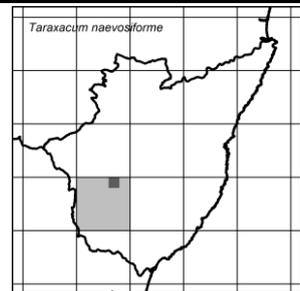
Location	Grid Ref	Year	Recorder / Reporter
Auchenblae, roadside	NO725787	1994	Welch, D.

**C039 *Taraxacum luteum* A.J.Richards****Pure Yellow Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** LR(DD); 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 2022 to 2022**Habitat** Natural grassland.**Commentary** Locally rare but data deficient, only recorded once. Elsewhere with thinly scattered records in the north and west of which only about 20 are from Scotland, the closest recent record being from Den of Riechip near Dunkeld, East Perthshire.

Location	Grid Ref	Year	Recorder / Reporter
Muchalls, grassland above sea cliffs	NO90239171	2022	Elston, D.

**C040 *Taraxacum maculosum* A.J.Richards****Spotted Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1976 to 1995**Habitat** Damp ground especially in woodland.**Commentary** Locally with no recent records but data deficient and recorded from five sites. Elsewhere widespread in the north and west though rather infrequently recorded, the closest recent records being from Glen Clova and Milldens (Angus) plus several sites in Mid Perthshire, with less recent records from near Kirriemuir (Angus) and fourteen sites in North Aberdeenshire.

Location	Grid Ref	Year	Recorder / Reporter
Inglismaldie, side of leat	NO644667	1995	Welch, D.
Fettercairn, by R North Esk at The Burn	NO5971	1977	Duncan, U.
Auchattie	NO6994	1977	Duncan, U.
Tilquhillie, near Castle	NO79	1976	Duncan, U.
Banchory, by R Dee	NO6995	1977	Duncan, U.

**C041 *Taraxacum naevosiforme* Dahlst.****Wetland Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1977 to 1977**Habitat** Wet grassland, cliffs.**Commentary** Locally with no recent records but data deficient, only recorded once. Elsewhere with a northern and western distribution, widespread but infrequently recorded in Scotland, the closest recent records are from near Meikleour (Mid Perthshire) and Kingoodie (East Perthshire) with less recent records from Glenshee and near Blairgowrie (East Perthshire), also from Cruden Bay, Foudland and five other sites in North Aberdeenshire.

Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, Birnie Hill near Cairn o' Mount road	NO6679	1977	Duncan, U.

**C042 *Taraxacum naevosum* Dahlst.****Squat Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1977 to 1977**Habitat** Damp unimproved grassland.

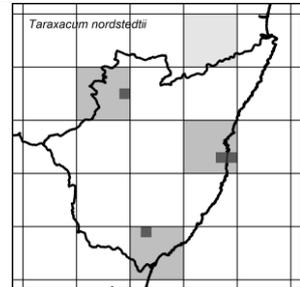
**Commentary** Locally with no recent records but data deficient, recorded twice near Banchory. Elsewhere only in the north, very infrequently recorded in Scotland with recent records from only five vice counties, the closest being from Strathardle (East Perthshire) with less recent records from Glen Clova (Angus) and Aberdour (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Auchattie	NO6994	1977	Duncan, U.
Banchory, edge of Golf Course	NO6995	1977	Duncan, U.

**C043 *Taraxacum nordstedtii* Dahlst.****Nordstedt's Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1851 to 1995**Habitat** Wet unimproved grassland and on cliffs.

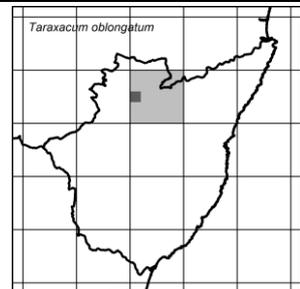
**Commentary** Locally with no recent records but data deficient, recorded from four widely scattered sites in the 20th century. Elsewhere widespread and most frequently recorded in the north and west, recently recorded from near Bridgend (Angus) and west of Dundee (East Perthshire) and less recently from near Clatt, Collieston and five other sites in North Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Garvock, moorland flush	NO727686	1994	Welch, D.
Dunnottar, grassland in Old Red Sandstone den	NO878838	1995	Welch, D.
Banchory, by R Dee	NO6995	1977	Duncan, U.
Auchattie	NO6994	1977	Duncan, U.
<i>Kingcausie, at Blairs</i>	<i>NJ80</i>	<i>1857</i>	<i>Lynne, J.</i>

**C044 *Taraxacum oblongatum* Dahlst.****Oblong-leaved Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1996 to 1996**Habitat** Verges, paths, hedge-bannks and gardens.

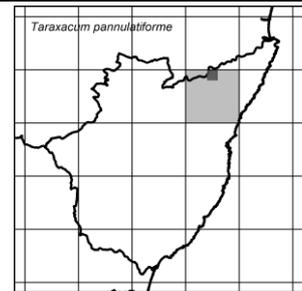
**Commentary** Locally with no recent records but data deficient, recorded only once and detached from its main distribution so likely to be genuinely rare. Elsewhere widespread but infrequently recorded, in Scotland recently recorded in only four vice counties, the closest such records being from Blairgowrie and Enochdu (East Perthshire).



Location	Grid Ref	Year	Recorder / Reporter
Banchory, trackside	NO700956	1996	Welch, D.

**C045 *Taraxacum pannulatiforme* Dahlst.****Tar-blotched Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1996 to 1996**Habitat** Road verges, waste ground.

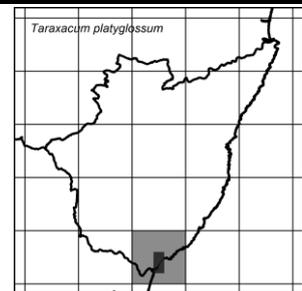
**Commentary** Road verges, waste ground. Locally with no recent records but data deficient, recorded only once and detached from its main distribution so likely to be genuinely rare. Elsewhere widespread but infrequently recorded, in Scotland recorded recently in only four vice counties, the closest recent record being from Kirkmichael (East Perthshire) with a less recent record from Inverallochy (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Maryculter, roadside	NO852982	1996	Welch, D.

**C046 *Taraxacum platyglossum* Raunk.****Tongue-leaved Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** LR(DD); 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/2/2**Earliest to Latest Record (or start and end of intervals)** 2007 to 2007**Habitat** Sand dunes.

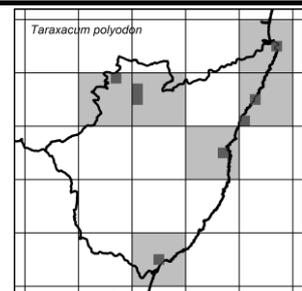
**Commentary** Locally rare, only recorded from St Cyrus and although data deficient may occur nowhere else. Elsewhere restricted to coastal sites in the north, widespread in Scotland but infrequently recorded, the closest recent records are from near Elie (Fife & Kinross) with less recent records from near Arbroath (Angus) and Cullen (Banffshire).



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, fixed dunes	NO74886406	2007	Pankhurst, R.

**C047 *Taraxacum polyodon* Dahlst.****Common Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1977 to 1996**Habitat** Grassland, dykes, disturbed ground.

**Commentary** Locally with no recent records but data deficient and one of our most frequently recorded dandelions. Elsewhere widespread but infrequently recorded, the closest recent records coming from Lunan Bay (Angus) also near Blairgowrie, Kirkmichael and west of Dundee (East Perthshire), with less recent records from near Montrose and Arbroath (Angus) as well as from near Newburgh, Ellon and ten other sites in North Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Banchory, trackside	NO700956	1996	Welch, D.
Banchory, Brathens, grassland	NO677984	1984	Welch, D.
Nigg, Girdle Ness, coastal grassland	NJ967057	1995	Welch, D.
Portlethen, turf on rocks by sea	NO9395	1977	Duncan, U.
Muchalls, coastal grassland by track	NO902917	1994	Welch, D.
Stonehaven, harbour	NO8785	1977	Duncan, U.
St Cyrus, sea cliffs	NO7564	1977	Duncan, U.

**C048 *Taraxacum proximiforme* Soest****Straw-fruited Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1993 to 1993**Habitat** Dry grassland.

**Commentary** Locally with no recent records, although data deficient only recorded once and probably genuinely rare. Elsewhere widespread but very infrequently recorded with recent records from only two Scottish vice counties, the closest recent record being from near Perth (Mid Perthshire) with less recent records from near Tomintoul in Banffshire and near Haddington (East Lothian).



Location	Grid Ref	Year	Recorder / Reporter
St Cyrus, rock outcrop at graveyard	NO744639	1993	Welch, D.

**C049 *Taraxacum proximum* (Dahlst.) Raunk.****Umbel-fruited Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1996 to 1996**Habitat** Dry grassland.

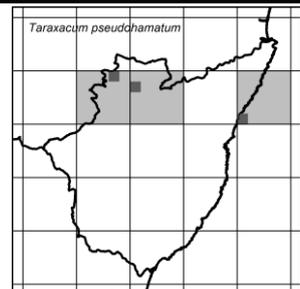
**Commentary** Locally with no recent records, although data deficient only recorded once and probably genuinely rare. Elsewhere widespread but very infrequently recorded with the largest aggregation of Scottish records being from the Uists (Outer Hebrides), the only close recent record being from Collace (Mid Perthshire) and a less recent record from near Elgin (Moray).



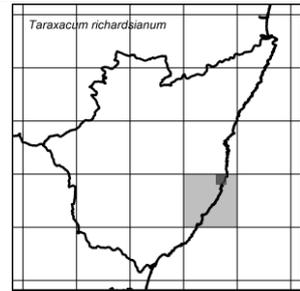
Location	Grid Ref	Year	Recorder / Reporter
Dunnottar, coastal grassland N of Castle	NO881845	1996	Welch, D.

**C050 *Taraxacum pseudohamatum* Dahlst.****False Hook-lobed Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1984 to 1994**Habitat** Roadsides, grassy places, waste ground.

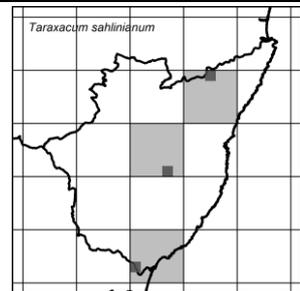
**Commentary** Locally with no recent records, data deficient and only recorded in the wild on two occasions plus once in a Banchory vegetable garden. Elsewhere widespread with unusually frequent records including a large cluster of recent records in lowland Mid Perthshire plus less recent records from near Pitmedden, Ellon and six other sites in North Aberdeenshire.



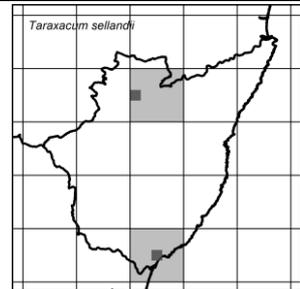
Location	Grid Ref	Year	Recorder / Reporter
Muchalls, derelict building	NO901919	1994	Welch, D.
Glassel, roadside	NO678981	1984	Welch, D.

**C051 *Taraxacum richardsianum* C.C.Haw.****Richards' Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1997 to 1997**Habitat** Humid meadows, species-rich verges, woodland margins, dune slacks.**Commentary** Locally with no recent records, only recorded once. Elsewhere with only thinly scattered records, mostly western, the closest recent records being from Enochdhu (East Perthshire) and Tummel Bridge (Mid Perthshire).

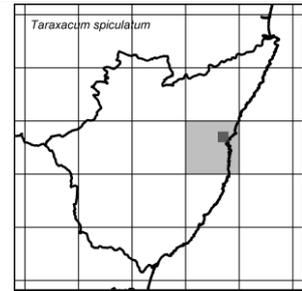
Location	Grid Ref	Year	Recorder / Reporter
Catterline, coastal grassland	NO870782	1997	Welch, D.

**C052 *Taraxacum sahlinianum* Dudman & A.J.Richards****Sahlin's Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1994 to 1996**Habitat** Roadsides, rock outcrops.**Commentary** Locally with no recent records but data deficient, recorded from three scattered locations. Elsewhere widespread but very infrequently recorded and absent from many regions, in Scotland with disjoint clusters of recent records from Orkney, Harris (Outer Hebrides) and Bute (Clyde Islands), the closest recent record being from near Meikle (East Perthshire) and Bridge of Earn (Mid Perthshire) with a less recent record from near Huntly (North Aberdeenshire).

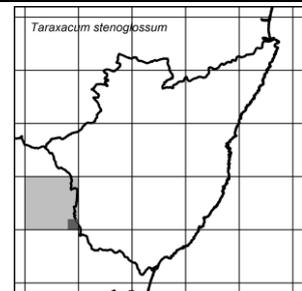
Location	Grid Ref	Year	Recorder / Reporter
Morphie, Old Red Sandstone outcrop in deciduous woodland	NO706637	1994	Welch, D.
Glenbervie, roadside	NO763805	1994	Welch, D.
Maryculter, roadside	NO852982	1996	Welch, D.

**C053 *Taraxacum sellandii* Dahlst.****Selland's Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1977 to 1995**Habitat** Grassland, waste places.**Commentary** Locally with no recent records but data deficient, only recorded once from each of two disparate sites. Elsewhere widespread but infrequently recorded, in Scotland most frequent in Mid Perthshire and the Central Belt, the closest recent records being from near Kingoodie, Blairgowrie and Enochdhu (Mid Perthshire) with two less recent records from near Inverness (East Ross and Easternness).

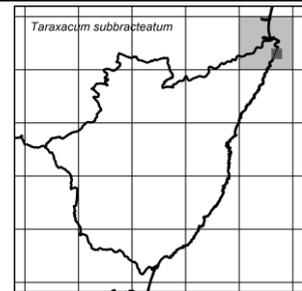
Location	Grid Ref	Year	Recorder / Reporter
Banchory, waste place	NO709959	1995	Welch, D.
St Cyrus, Bay	NO7564	1977	Duncan, U.

**C054 *Taraxacum spiculatum* M.P.Christ.****Sagittate-lobed Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1977 to 1977**Habitat** Grassland, roadsides.**Commentary** Locally with no recent records, data deficient but with just one record and given its wider distribution it may be genuinely rare. Elsewhere widespread but very infrequently recorded, only ever recorded from five sites in Scotland the closest being Kirriemuir (East Perthshire).

Location	Grid Ref	Year	Recorder / Reporter
Stonehaven, at Harbour	NO8786	1977	Duncan, U.

**C055 *Taraxacum stenoglossum* Brenner****A Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1970 to 1977**Habitat** Grassland, walls.**Commentary** Locally with no recent records, data deficient but recorded from only one locality. Elsewhere widespread but rather infrequently recorded, the closest recent records being from near Perth and Blair Atholl (Mid Perthshire) and Tentsmuir (Fife & Kinross) with less recent records from near Arbroath (Angus), Blairgowrie (East Perthshire) and Aberdeen (South Aberdeenshire).

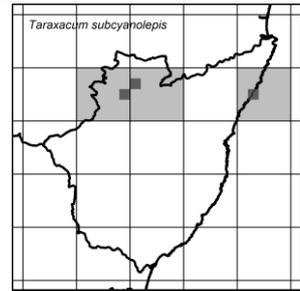
Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, wall top at The Burn	NO5971	1977	Duncan, U.

**C056 *Taraxacum subbracteatum* A.J.Richards****Dark-bracted Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1995 to 1995**Habitat** Grasslands.**Commentary** Locally with no recent records but data deficient, recorded only once. Elsewhere widespread but generally infrequently recorded, the closest recent records being from near Collace, Coupar Angus and Kirkmichael (East Perthshire) with less recent records from near Oldmeldrum and four other sites in North Aberdeenshire.

Location	Grid Ref	Year	Recorder / Reporter
Nigg, trackside	NJ968038	1995	Welch, D.

**C057 *Taraxacum subcyanolepis* M.P.Christ.****Reddish-bracted Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1977 to 1977**Habitat** Grassland and ruderal places.

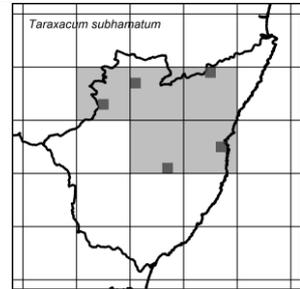
**Commentary** Locally with no recent records but data deficient, recorded in the wild from two disparate sites plus once in a Banchory vegetable garden. Elsewhere widespread but infrequently recorded, the only recent record from Scotland being on Harris (Outer Hebrides), the closest less recent records coming from Lunan Bay and Rescobie Loch (Angus) and from near Maud (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Auchattie	NO6994	1977	Duncan, U.
Portlethen, village street	NO9395	1977	Duncan, U.

**C058 *Taraxacum subhamatum* M.P.Christ.****Large Hook-lobed Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR(DD); 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1977 to 1996**Habitat** Roadsides and disturbed ground.

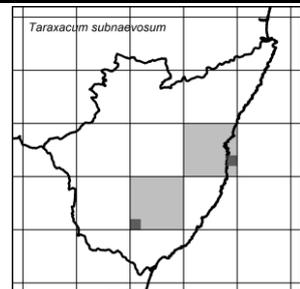
**Commentary** Locally with no recent records but data deficient, with single records in the wild from four disparate sites plus one record from a Banchory vegetable garden. Elsewhere widespread but generally infrequently recorded, the closest recent records coming from near Dundee, Caputh and Kirkmichael (Mid Perthshire) with less recent records from near Newburgh, Pitmedden, Oyne and about 20 more sites in North Aberdeenshire.



Location	Grid Ref	Year	Recorder / Reporter
Strachan, roadside	NO649922	1995	Welch, D.
Maryculter, roadside	NO852982	1996	Welch, D.
Stonehaven, at Harbour	NO8785	1977	Duncan, U.
Glenberrie, old quarry	NO760801	1996	Welch, D.

**C059 *Taraxacum subnaevosum* A.J.Richards****Pale-bracted Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1994 to 1995**Habitat** Humid grassland.

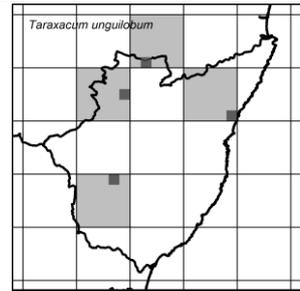
**Commentary** Locally with no recent records but data deficient, only recorded once. Elsewhere widespread in the north, in Scotland throughout but infrequently recorded, the closest recent records being from near Dundee and Collace (East Perthshire) with less recent records from near Rhynie, Cabrach and several coastal sites north of Newburgh (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Laurencekirk, railway yard	NO717718	1994	Welch, D.
Dunnottar, wet grassland close to HWM	NO880837	1995	Welch, D.

**C060 *Taraxacum unguilobum* Dahlst.****Claw-lobed Dandelion****Local Origin** Native**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1977 to 1997**Habitat** Dykes, wet paths and flushes in hill ground.

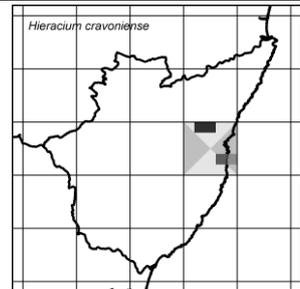
**Commentary** Locally with no recent records but data deficient and recorded from five scattered sites. Elsewhere widespread and frequent in the north and west, the closest recent records being from The Burn, Upper Glen Esk and near Bridgend (Angus) with less recent records from eleven sites in North Aberdeenshire including near Newburgh and Oldmeldrum.



Location	Grid Ref	Year	Recorder / Reporter
Glensaugh, rocks by the Slack Burn	NO6679	1977	Duncan, U.
Auchattie	NO6994	1977	Duncan, U.
Banchory, by the Golf Course	NO6995	1977	Duncan, U.
Raemoir, dyke crevice	NJ729006	1997	Welch, D.
Muchalls, dyke crevice	NO882918	1994	Welch, D.

**C061 *Hieracium cravoniense* (F.Hanb.) Roffey****Craven Hawkweed****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/2/2**Earliest to Latest Record (or start and end of intervals)** 1922 to 2022**Habitat** Buildings and cliffs.

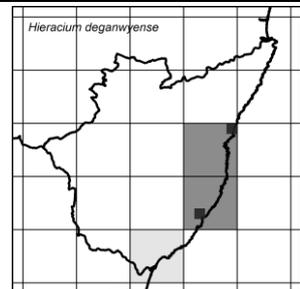
**Commentary** Locally rare, only known from two sites near Stonehaven. Elsewhere a northern species with a stronghold in the Pennines, in Scotland widespread but infrequently recorded, the closest recent records being from near Edzell (Angus) and on the Braes of the Carse (East Perthshire) with less recent records from Glen Esk, Glen Clova and Den of Airlie (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Rickarton, roadside at bridge	NO842883	2022	Welch, D.
Dunnottar, crevice in Old Red Sandstone cliff	NO878838	1995	Welch, D.

**C062 *Hieracium deganwyense* Pugsley****A Hawkweed****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1888 to 2012**Habitat** Buildings and raised beaches.

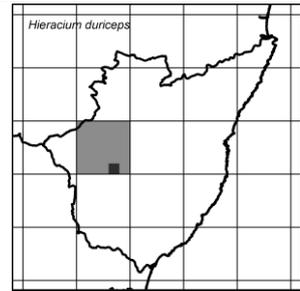
**Commentary** Locally rare, long lost from St Cyrus but rediscovered further north in 2000 and reaching its northern limit at Garron Point. Elsewhere almost confined to northern England and the southern half of Scotland, infrequently recorded throughout, the closest recent records being from Glen Fee (Angus) and on the Braes of the Carse (East Perthshire) with a less recent record from near Kinnordy (East Perthshire).



Location	Grid Ref	Year	Recorder / Reporter
Garron Point, Perthumie Bay, sand terrace	NO89048817	2006	Welch, D.
Inverbervie, base of pillar of old bridge	NO831729	2012	Welch, D.
St Cyrus	NO76	1888	White, F.

**C063 *Hieracium duriceps* F.Hanb.****Hard-headed Hawkweed****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 2000 to 2000**Habitat** Rocks.

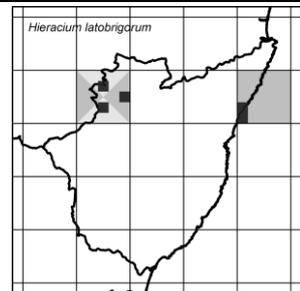
**Commentary** Locally rare, only once recorded. Elsewhere widespread but infrequently recorded in the north, recorded recently from the Rocks of Solitude (Angus) with less recent records from near Spittal of Glenshee (East Perthshire), Kinross (Fife & Kinross and West Perthshire), and Cabrach (North Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Glensaugh, Slack of Birnie	NO676802	2000	Welch, D.

**C064 *Hieracium latobrigorum* (Zahn) Roffey****Yellow-styled Hawkweed****Local Origin** Native**National Status** -, -, -**Local Status** LS; 5 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1876 to 2022**Habitat** Rocks and riverine grassland.

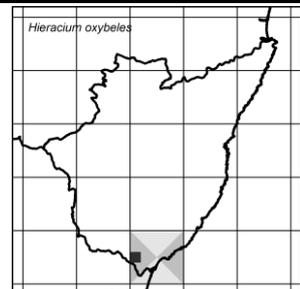
**Commentary** Locally scarce, known from near Banchory since 1876 but not discovered near the coast until 1997. Elsewhere only in northern Britain where it is widespread, most frequently recorded around Glasgow, recorded recently near Aberdeen (South Aberdeenshire), Den of Airlie (Angus) and Glen Ericht (East Perthshire), also much less recently near Edzell and Forfar (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Woodend, Cairnton, by R Dee	NO643963	2006	Welch, D.
Banchory, riverside	NO687957	2010	Welch, D.
Strachan, trackside	NO64749293	2022	Welch, D.
Newtonhill, crag by burn near sea	NO91319375	2020	Elston, D.
Mill of Muchalls, crag in scrub	NO901912	2004	Welch, D.

**C065 *Hieracium oxybeles* P.D.Sell****Pointed-leaved Hawkweed****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1856 to 2016**Habitat** Rocks.

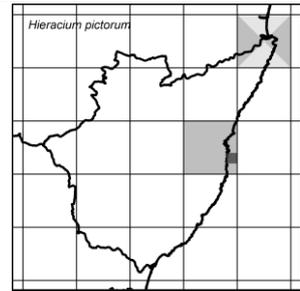
**Commentary** Locally rare, only known from a single isolated population. Elsewhere mostly in Scotland where it is widespread but infrequently recorded in the highlands and islands, the closest recent records coming from near Braemar (South Aberdeenshire) and less recently from Aberdeen Links (South Aberdeenshire) and Glen Clova (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Den of Morphie, Old Red Sandstone outcrop	NO708645	2016	Elston, D.; Cox J.

**C066 *Hieracium pictorum* E.F.Linton****Picts Hawkweed****Local Origin** Native**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1870 to 1993**Habitat** Sea cliffs.

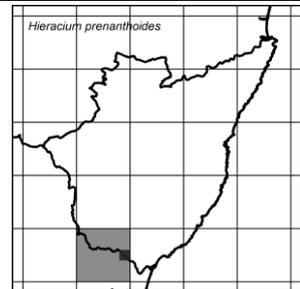
**Commentary** Locally with no recent records, only twice recorded but may still be present. Elsewhere only known from Scotland where it is widespread but infrequently recorded in or close to upland areas, the closest recent record being from upstream of the Rocks of Solitude and Coire Fee (Angus) and Craighall Gorge (East Perthshire) with less recent records from upper Glen Esk (Angus) and near Tomintoul (Banffshire).



Location	Grid Ref	Year	Recorder / Reporter
Dunnottar, Old Red Sandstone ledge near sea	NO881838	1993	Welch, D.
Cove Bay, sea coast	NJ90	1870-1970	

**C067 *Hieracium prenanthoides* Vill.****Rough-leaved Hawkweed****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 2021 to 2021**Habitat** Cliffs, riverside grassland.

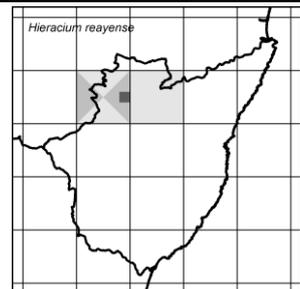
**Commentary** Locally rare, discovered in 2020 and first recorded 2021. Elsewhere recorded mostly in or near high ground from the Pennines to the Grampian Mountains where it appears to be infrequent, the closest recent records being from near Braemar (South Aberdeenshire) and West Lomond Hill (Fife & Kinross) with less recent records from Deeside to Potarch (South Aberdeenshire), Montrose, Glen Clova and Den of Airlie (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Marykirk, field margin near river	NO68396574	2021	Elston, D.

**C068 *Hieracium reayense* (Pugsley) P.D.Sell****Reay Hawkweed****Local Origin** Native**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/1**Earliest to Latest Record (or start and end of intervals)** 1847 to 1993**Habitat** Riverside rocks and grassland.

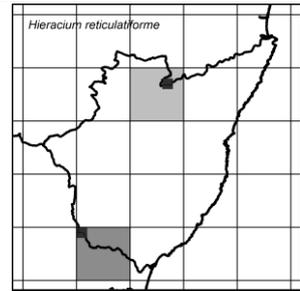
**Commentary** Locally with no recent records, only known from by Banchory by the River Dee and presumably in similar landscape setting at Durris. Elsewhere only in Scotland where it is widespread but very infrequently recorded with only three recent records, the closest of these being from Braemar (South Aberdeenshire) with less recent records from near Forres (Moray), Tomintoul (Banffshire) and near Blairgowrie, Delvine and Coupar Angus (East Perthshire).



Location	Grid Ref	Year	Recorder / Reporter
Banchory, woodland by R Dee	NO691953	1993	Welch, D.
Durris	NO79	1847	

**C069 *Hieracium reticulatiforme* P.D.Sell****Reticulate-leaved Hawkweed****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1998 to 2007**Habitat** Riverside rocks and stonework.

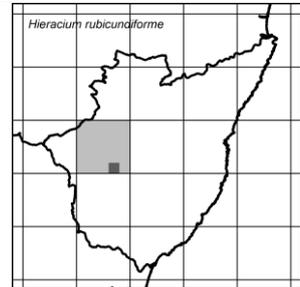
**Commentary** Locally rare, only recorded from two sites. Elsewhere restricted to northern England and Scotland where it is widespread but infrequently recorded, the closest recent records being from by the River Ugie (North Aberdeenshire), close to the River Deveron (North Aberdeenshire), near Meikleour (Mid Perthshire) and Kirkmichael (East Perthshire) with less recent records for near Braemar (South Aberdeenshire) and Glen Clova (Angus).



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, by R North Esk opposite Edzell	NO602692	2003	Welch, D.
Kirkton of Durris, parapet of old bridge	NO772960	2007	Welch, D.

**C070 *Hieracium rubicundiforme* (Zahn) Roffey****Rubicund Hawkweed****Local Origin** Native**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1993 to 1993**Habitat** Rocks.

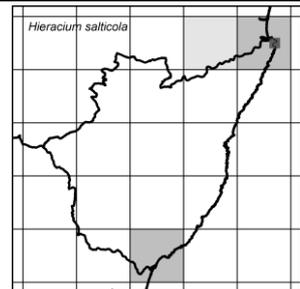
**Commentary** Locally rare, recorded only once. Elsewhere mostly in northern England and Scotland where it has been very infrequently recorded north of the Central Belt, the closest recent record being from near Stirling and less recently recorded from Glen Clova (Angus) and Glen Clunie (South Aberdeen).



Location	Grid Ref	Year	Recorder / Reporter
Glensaugh, Slack of Birnie	NO672807	1993	Welch, D.

**C071 *Hieracium salticola* (Sudre) P.D.Sell & C.West****Bluish-leaved Hawkweed****Local Origin** Native**National Status** -, -, -**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1879 to 1980**Habitat** Coastal sands or by R Dee.

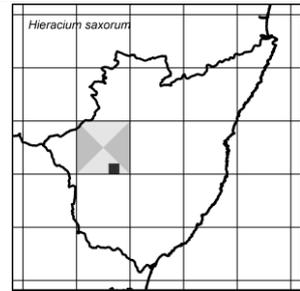
**Commentary** Locally rare, only recorded on three occasions. Elsewhere records are thinly scattered, including old records from Aberdeen Links (South Aberdeenshire) and Montrose (Angus), also with a cluster of relatively recent records from the Central Belt and one from Inverness.



Location	Grid Ref	Year	Recorder / Reporter
Nigg, railway bank at Doonies	NJ965045	1980	Killick, H.; Sargent, C.
St Cyrus	NO76	1978	Palmer, J.R.
Kingcausie, opp.	NJ80	1879	Boswell-Syme, J.

**C072 *Hieracium saxorum* (F.Hanb.) P.D.Sell & C.West****Rock Hawkweed****Local Origin** Native**National Status** -, -, -**Local Status** LR; 1 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 1/1/0**Earliest to Latest Record (or start and end of intervals)** 1966 to 2017**Habitat** Rocks.

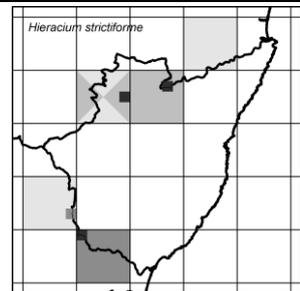
**Commentary** Locally rare, only known from the Slack of Birnie. Elsewhere widespread but infrequently recorded in northern and western Britain with a small cluster of records from the Eastern Grampians, recorded recently from near Edzell and in Glen Clova (Angus), also above Loch Muick (South Aberdeen).



Location	Grid Ref	Year	Recorder / Reporter
Glensaugh, Slack of Birnie, rock outcrop	NO68Q	2017	Elston, D.

**C073 *Hieracium strictiforme* (Zahn) Roffey****Strict Hawkweed****Local Origin** Native**National Status** -, -, -**Local Status** LR; 2 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 2/2/2**Earliest to Latest Record (or start and end of intervals)** 1837 to 2010**Habitat** Rocks and stony ground.

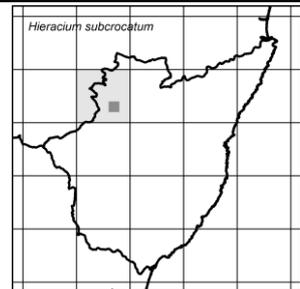
**Commentary** Locally rare, only known from near the Rivers Dee and North Esk. Elsewhere widespread but rather infrequently recorded in northern England and Scotland, the closest recent records are from The Burn and Careston (Angus) with less recent records from Glen Clova (Angus), mid-Deeside and Balgownie Links (South Aberdeen).



Location	Grid Ref	Year	Recorder / Reporter
Fettercairn, by R North Esk opposite Edzell	NO602692	2003	Welch, D.
Banchory, woodland by R Dee	NO691953	2010	Welch, D.
Durris Island, shingle by R Dee	NO770967	1995	Welch, D.
Kingcausie, Corbie Den	NJ80	1855	Syme, J.

**C074 *Hieracium subcrocatum* (E.F.Linton) Roffey****Dark-styled Hawkweed****Local Origin** Native**National Status** -, -, -**Local Status** LE; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0**Earliest to Latest Record (or start and end of intervals)** 1952 to 1952**Habitat** Rocks.

**Commentary** Locally with no recent records, only recorded once. Elsewhere widespread but rather infrequently recorded in northern and western Britain, the closest recent records are from near Craig Castle (North Aberdeenshire), Glen Shee and Perth (East Perthshire) whilst less recent records are from Arbroath and Glen Clova (Angus) plus Aberdeen (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Auchattie, Scolty Hill	NO6793	1952	Henderson, A.

**C075 *Hieracium subumbellatiforme* (Zahn) Roffey**

**Slender Hawkweed**

**Local Origin** Native

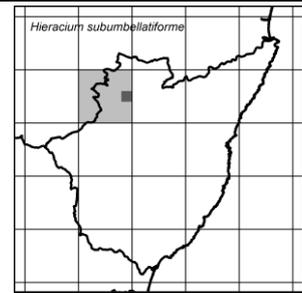
**National Status** -, -, -

**Local Status** NRR; 0 Site(s) 2000+; 2000-2019 No.Hec/Tet/Mon 0/0/0

**Earliest to Latest Record (or start and end of intervals)** 1988 to 1993

**Habitat** Rocks.

**Commentary** Locally with no recent records, only recorded twice. Elsewhere restricted to Scotland north of the Forth Estuary where old records are widespread but recent records are restricted to East Perthshire and Moray whilst the closest older records come from Aberdeen and near Braemar (South Aberdeenshire).



Location	Grid Ref	Year	Recorder / Reporter
Banchory, woodland by R Dee	NO684957	1993	Welch, D.