

BOTANICAL SOCIETY OF THE BRITISH ISLES

WELSH BULLETIN

Editor : R. D. Pryce

No. 64, WINTER 1998



Photocopy of specimens of *Asplenium trichomanes* subsp. *pachyrachis* at NMW,
enlarged (x1.5) to show the often hastate pinnae of this subspecies.
It is new to Brecs. (v.c.42); see Welsh Plant Records.

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EDITORIAL

This issue of the Welsh Bulletin documents the progress being made with Atlas 2000 recording in the Welsh vice-counties now that two field seasons have been completed. It appears that all is going well and that we are on target for finishing the fieldwork by the end of the 1999 season. However, it is interesting to make comparison between the individual recorder's accounts, which describe how the task is being tackled in different ways in each county.

I would like to thank Sarah Lendrum in the Department of Biodiversity and Systematic Biology for typing the various Recorders' manuscripts for reproduction in the Bulletin.

Another large part of this issue is taken up by 1996 Welsh Plant Records. I am again very grateful to Gwynn Ellis for sparing the time to collate your records despite his heavy workload as BSBI Hon. Gen. Sec. There would, of course, be no records to collate without the never-ending efforts of the Vice-county Recorders, a stalwart band of dedicated individuals who somehow find an ever-increasing amount of time to maintain their county's floral archive as well as answering queries from fieldworkers, identifying specimens, processing Atlas 2000 data, leading field meetings, dealing with enquiries from researchers, local authorities and consultants while also writing periodic reports and County Floras. This all in addition to getting out into the field themselves to gather the records - usually the reason for their enthusiasm in agreeing to undertake the Recorder's duties in the first place. The workload often seems insurmountable.

I am also grateful to Jean Green and Joan Daniels for their account of a new site for *Rubus chamaemorus* in Wales and to Gordon Knight for providing another of his thought-provoking articles - this time on a possible association of Red Campion with Adders in Pembrokeshire.

The Welsh field meetings programme for 1999 is geared very much to Atlas 2000 recording and monitoring and I urge you to enter the dates in your diaries now so that you don't miss any. The programme will be found in the BSBI Year Book. Your assistance in the 'final push' will be very much appreciated especially in those counties where members are few and far between and field work is still needed. Carmarthen is hosting the Welsh AGM from 20th to 23rd August which incorporates various field excursions to sites and habitats of interest in both Pembrokeshire and Carmarthenshire. I look forward to seeing many of you there.

Finally, may I wish all members and friends a Happy New Year and hope that the final field season recording for Atlas 2000 turns up all that you wish for!

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several sites in the 1970s, have no post-1986 records. However, a few arable weeds (e.g. *Avena fatua*, now locally abundant in Gower, where it was unknown 20 years ago) have increased. As would be expected, many new and interesting records have been made during Atlas 2000 recording, for example *Papaver argemone* (last seen in the county in 1927 at Llangennith and 1948 in Cardiff) in 1998 in a former *Silene gallica* site at Blackpill (SS69, QK), and *Pyrola minor* in 1998 on sand-dunes near Jersey Marine (SS79, CRH). Other particularly notable discoveries or rediscoveries of rare native species in the county since 1987 have included *Trifolium occidentale*, found on cliffs near Rhossili by Jo Dunn in 1987, *Scorzonera humilis* by Julian Woodman in species-rich pasture sites at Cefn Cribwr (1996) and north-east Gower (1997), *Sorbus domestica* by Marc Hampton at two apparently native sites on the southern Vale cliffs, *Ononis reclinata* by Tim Rich at a new site near Rhossili in 1994. The CCW Lowland Grassland survey team discovered a population of *Coeloglossum viride* at Cefn-onn to the north of Cardiff (1997). *Rumex rupestris*, not seen in the county since 1948 and thought to be extinct was refound by Quentin Kay on cliffs near Southerndown in 1996, although none of the latter finds were made during systematic Atlas 2000 work.

Quentin Kay & Julian Woodman

Atlas 2000: Breconshire (v.c. 42)

Following the strategy outlined in my previous progress report (Welsh Bulletin 60) the fieldwork for Atlas 2000 has been utilised to update species maps and check early records from the Breconshire Flora project. Due to unexpected circumstances, little fieldwork was undertaken during 1997-1998 and, consequently, we will be hard-pressed to meet the Atlas 2000 deadline. Fortunately progress has been greatly aided by the adoption by Ray Woods of two hectads in the north of the county. He completed SN95 last year and is now recording SN85. We have also been helped by Graham Motley who took up a post in Monmouthshire this year and has been recording SN91. Mervyn Howells has volunteered to tackle SN82 next year, and Delia Ayres, a member of the Brecknock Wildlife Trust, has recorded the plants from her home patch in SO21. I am most grateful for all their help.

The search for "missing species", i.e. those recorded for that hectad from 1970-1986, has demonstrated that many plants formerly common in the county have become difficult to locate. The decline of such species as *Trollius europaeus*, *Dactylorhiza incarnata* and *Platanthera chlorantha* as a result of drainage schemes and the destruction of old meadows, has been noted in previous reports. Infilling of roadside ditches and less sensitive mechanical management of canal banks has caused several marsh plants to become scarce. Clearance of hedges combined with a decline in traditional methods of hedge maintenance appears to have led to a decrease in some hedgerow species such as *Rosa micrantha*.

Only one master card has been completed so far, but it is hoped that another six or seven will be finished this winter. A field meeting to help in recording SN84 is planned for June 1999.

Mike Porter

Atlas 2000: 1998 recording in v.c. 43

Recording is continuing in 1-km squares (in previous communications it was explained that this was the only way to combine tetrad recording with the previously published 5-km square format of the 'Flora of Radnorshire'). Records are made initially on recording cards modified from the BSBI Welsh Recording Card, using Microsoft Excel to produce a card in which coastal species are excluded, and unusual and critical species are also excluded. This makes a recording card with a space on the recording side where notes can be made to be transferred later to a larger area on the reverse side for 6-figure and other notes for special species. These cards also have the position of species name and BRC number reversed, an idea previously suggested by Tim Rich, and making entry into a database somewhat easier.

Records are computerised in Alan Morton's MAPRECSW which reads directly into DMAPW, and this program produces hectad lists that are quite adequate for Atlas 2000 usage. Records of special interest, with 6-figures, recorder, date and other details as on 'Pink Cards' go on to a database also generated in Microsoft Excel. Previous records compiled from pre-1986 information, e.g. from the previous 'Atlas of the British Flora' and 'Flowering Plants of Wales' form the basis from which Hit Lists are compiled at the end of each year's recording. These Hit Lists compare the records from the pre-86 information with present recording, and provide some information therefore of the habitats to which subsequent recording should be directed. In a vice-county harbouring very few recorders this information is of great value, although sometimes rather depressing.

On the brighter side however new records appear. *Anacamptis pyramidalis* has been found for the first time, by Margaret Gill, an archaeologist who had previously written about the flora of her neighbouring churchyard, and has been persuaded to look further into her home hectad. The Radnorshire Wildlife Trust is undertaking a comprehensive survey of its reserves in a project in which the botanical expertise of Steve Chambers has been invaluable, and is adding to our records particularly of some critical species and hybrids. Many new lichen records have been added, with some 300 species in one of the reserves.

Some statistical analysis of recording has been done, the comments here relating to results to the end of 1997. The Hit Lists reveal that a considerable list of new hectad records is being compiled, many of quite common species not previously recorded. Quite a number of apparently new records seem to result from name changes or switches from aggregates to strict names or vice-versa. In the 13 hectads of which more than half the area is within the vice-county, the average number of species recorded to the end of 1997 is 392, and an average Hit List is 118. Not on the face of it an index of complete recording, but the hills of Radnorshire are not species-rich. Nevertheless the average number of new records in each of these hectads since the publication of FPW is 115.

As can be seen, any records made by travellers through Radnorshire, a county that has always depended on non-resident recorders, would be more than welcome.

David Humphreys

Atlas 2000: Carmarthenshire - report on recording progress 1996 to 1998

This update includes the period covered by my last Carmarthenshire Flora Progress Report printed in BSBI News 63 in which I described new records and activities over the three years to the end of 1997.

Despite the increasingly scarce amount of time that I am able to devote to the task, steady progress has been made with recording and monitoring since the start of the Atlas 2000 project. This has been done in conjunction with the continuing fieldwork undertaken for the forthcoming Carmarthenshire Flora.

Fieldworkers remain limited to a few stalwarts, in particular George Hutchinson, Ian Morgan and Mary and James Liff, but considerable ground is covered each year by participants of the annual recording weekend based in Llandovery who regularly include Arthur Chater, John Killick and Wendy McCarthy. Records are also regularly received from CCW and Carmarthenshire County Council staff including Jamie Bevan and Jim Davies.

The bulk of the records have been input into the Biorecs computer database but at present there is a considerable backlog of field cards and individual field-slips from recent meetings awaiting input. A daunting task but I am not overly concerned as I only intend to submit 10km-square data for the Atlas: a relatively small number of files and a fairly straightforward task for checking and updating. Post-1986 recording coverage at the 10km level is more than adequate although a few gaps remain at the tetrad level which will need to be addressed before the production of the county Flora.

The Carmarthenshire Rare Plant Register was produced in provisional form in January 1998 and comments were gratefully received from several eminent consultees which resulted in a very much more polished 'final' version being issued in November 1998. This is proving to be an invaluable tool for species monitoring and will continue to be so in 1999 and beyond.

Species monitoring has included, for instance, *Sibthorpia europaea* (Cornish Moneywort), *Andromeda polifolia* (Bog Rosemary), *Gentianella* (gentian), *Liparis loeselii* (Fen Orchid), *Linaria supina* (Prostrate Toadflax), *Carex punctata* (Dotted Sedge) and *Orobanche rapum-genistae* (Greater Broomrape). *Ranunculus tripartitus* (Three-lobed Crowfoot) has not been refound. During monitoring, the most alarming discovery to have been made, is the massive degradation of Carmarthenshire's duneland habitats caused by unchecked scrub invasion over the last fifteen years or so. This has resulted in major losses of open slack vegetation which must be addressed immediately if further losses and extinctions are to be avoided.

New vice-county records have included *Potamogeton coloratus* (Fen Pondweed) in ponds in Pembrey Forest where it was associated with several charophytes of national or local significance. First records of eleven dandelions were determined by John Richards and Andrew Dudman from material collected in 1994 and 1995. *Hieracium lasiophyllum* (a hawkweed) was also a first county record while *Epilobium brunnescens* x *E. ciliatum* (a hybrid willowherb) was a first British record.

Rediscoveries of species thought to have become extinct in the vice-county included *Limosella aquatica* (Mudwort) and *Mentha pulegium* (Pennyroyal). *Silene gallica* (Small-flowered Catchfly) was refound at Burry Port during survey work for the Llanelli Millennium Coastal Park scheme after a thirty year gap. The trouble is that the population is likely to be lost to the development. Another significant discovery associated with the Park was the West Pwll Ash Lagoon, a former lagoon into which pulverised fuel ash (pfa) from the now demolished Carmarthen Bay Power Station was pumped. Both acid-loving and basophile species grow juxtaposed depending on which fraction of the ash they are growing. For instance, *Osmunda regalis* (Royal Fern), *Drosera rotundifolia* (Common Sundew) and *Oreopteris limbosperma* (Mountain Fern) occur in acid areas while *Juncus subnodulosus* (Blunt-flowered Rush) and *Dactylorhiza praetermissa* (Southern Marsh-orchid) are abundant elsewhere. Three plants of *Pyrola minor* (Common Wintergreen) were also found.

Field meetings in 1999, both BSBI and other societies active in the county, will continue to be geared to recording and monitoring for Atlas 2000.

Richard Pryce

Atlas 2000: Botanical recording in Pembrokeshire since 1995

Recording for the flora of v.c. 45 has been a little hectic since I put pen to paper for the report in Welsh Bulletin No. 60 on 27.01.96. By 16.02.96 plans for a pleasant season field recording in those spare moments had evaporated when I found myself chairing the Environment Team in the "Sea Empress" Joint Response Centre. Spare time was no more all through that summer and 1997 was also difficult because of the backlog of unfinished work. An advantage of my pivotal involvement in the massive oil spill clean-up operation - along with that of another BSBI member Jane Hodges of the Pembrokeshire Coast National Park - was that the vascular plants of Pems. received special consideration. As a consequence it is hard to find any evidence of significant damage to the coastal flora arising from beach cleaning and its associated vehicular access which continued throughout 1996. Impact studies on oiled saltings by the Institute of Terrestrial Ecology will provide updated distributions for key species such as *Salicornia pusilla* and *Limonium humile*. *Zostera angustifolia* was also the subject of an impact assessment by Jane Hodges.

Jo and Gordon Hannah continued to submit an impressive pile of record cards until this year when illness dramatically impaired the flow. Unfortunately my failure to find time to input their efforts has been somewhat disheartening although the situation will change this winter. Having retired from the Countryside Council for Wales at an early age, in March of this year, there is now every prospect of all records being inputted into BIORECS this winter. Indeed one of the main reasons for retiring so early was to make time for Atlas 2000.

I have managed to compile over a 100 field cards this year along with about 40 rare species population forms. A special effort has been made to visit *Ranunculus tripartitus* sites as a contribution to the UK Species Action Plan for this plant that has its stronghold in Wales in v.c. 45. *Pilularia* sites have also received special attention this year and three new locations have been found all in situations where new wildlife ponds have been created. Unfortunately two of these *Pilularia* sites also have the invasive *Crassula helmsii*. This is the first year that we have found it

naturalised in Pembs. and *Lemna trisulca* and *Azolla filiculoides* are also spreading, presumably as a result of an increase in garden centre and aquaculture sales. I fear for the future of some of our classic shallow open water bodies. We have such an extreme oceanic climate that once they arrive the tender plants will be more likely to become rampant in the wild than in other parts of Wales.

The total number of rare species population forms now stands at about 850 and since 1995 repeat visits have been made to about a quarter of these. Although it is always fascinating to return to see how a speciality is prospering this task is going to need to become more of an activity for members and others in addition to the recorder if it is to be sustainable. Attempts to advance the Atlas through recording meets for members in June 1996 failed to gain much attendance and contributions from non-resident botanists have been limited because of the remoteness of Pembs. The few cards that have arrived have been most welcome as they tend to cover the difficult groups and often address subspecies. My weaknesses in this respect remain and the arrival of the *Plant Crib 1998* has been a little late to ensure adequate coverage. Plans for the last field season will have to be of military proportions if all the outstanding old records are to be refound and a presentable start made on subspecies and hybrids let alone non-native plants. I shall have to cease recording by habitats within sites, as I have been doing since 1980, and spend the year chasing single species at the hectad level - it is a practice that really goes against my inclinations!

There is also the thorny problem of other organisation's records. Will there be time to manually extract all the CCW Phase 1 data and other survey data that is still being collected with little thought of how to make it readily transferable to BSBI databases?

Some of the more interesting finds since the last report have been *Crassula tillaea* by Jack Donovan in the blockwork of a car park at Manorbier and *Scrophularia scorodonia* found in disturbed ground at Milford Haven by Jo and Gordon Hannah. Of species native to Pembs., *Crambe maritima* appears to have gone from the north end of Freshwater West but is well established at Blucks Pool at the south end where it was found by Peter Brown this year. A huge stand of *Filago minima* was discovered on the "burning grounds" of the old Royal Navy Armaments Depot at Trecwn - currently controversial owing to ideas for storage of nuclear waste. *Orobancha rapum-genistae* developed 100's of often huge multiple spikes at its classic Poppit dunes sites following an intense uncontrolled gorse fire at Easter 1997. *Sorbus torminalis* has been found on a wooded crag at Lower Town, Fishguard, the first record for the Gwaun valley, and this tree, a relict of a warmer climate, is now present on most of the river systems of Pembs. *Scilla verna* has been spotted by Jean Buchanan on Dinas Mountain adding yet another inland record to its fascinating distribution in the county and lending even more weight to the concept of naturally open rocky areas breaking up the post-glacial woodland cover prior to its clearance by man. *Gentianella anglica* seems to have definitely emerged at Stackpole NNR as an extant population where its potential as "*anglica*" was first recognised by Jack Donovan in a short note to the recorder in 1988. An excellent outcome from ITE's vegetation mapping of Ministry of Defence properties in south Pembs. this year has been the discovery of two further patches of *Asparagus officinalis* ssp. *prostratus* of both sexes which greatly increases the number of plants and their viability.

This final year is going to be hard work but at least I should have the time to deliver reasonable data for the Atlas by the November deadline. I fear, however that when the new maps are presented there may well be some embarrassing blanks for difficult groups, sub-species and non-native plants when compared with neighbouring counties.

Stephen Evans

Atlas 2000: v.c. 46, Cardiganshire

Recording has continued apace, and it is generally becoming difficult to make new hectad records except for taxa which have only recently been learnt. The *Epilobium* workshop at the 1997 Recorders' Conference is a case in point, as since then it has proved possible to make new records of several hybrids in almost every hectad. Most recent new v.c. records have been of hybrids and aliens. A few important and rich sites have still not been re-recorded since 1986, and it is hoped to cover all these in 1999.

Master RP27 cards have been compiled for all tetrads except those in Monitoring Scheme hectads, although field notes for 1983-1986 remain to be entered. From these, three master hectad RP27 cards have been compiled, but only one of these, for SN56, has so far been submitted in Atlas 2000 Mastercard form. I have failed to come to grips with Recorder, and am awaiting discussion with the new Coordinators on how best to proceed, but I am confident that even at the worst it will be possible manually to come up with the required Mastercard this winter.

A new edition of the *Ceredigion Rare Plant Register* was produced with the help of CCW in 1997, now titled Part 1, *Vascular Plants and Charophytes*, as Alan Hale has produced Part 2, *Bryophytes*, ed.1, 1996 and ed.2, 1998. Visits by experts continue to be a major feature of recording, with especially productive work by David Allen on *Rubus*, Dick Brummitt on *Calystegia*, Clive Jermy and Anthony Pigott on *Dryopteris*, Clive Jermy on *Isoetes* and *Equisetum*, and Richard Lansdown on *Callitriche*. Phase 1 and more recently Phase 2 surveying by Matt Sutton of CCW has added many new hectad records, and I have been especially helped as always by Julian Woodman, Lin Gander, Dafydd Davies, Steve Chambers and Alan Hale among many others.

Arthur Chater

Atlas 2000: v.c. 47, Montgomeryshire

We published *The Flora of Montgomeryshire* in 1995, so we already had a good basis for Atlas 2000 and dating our records was not a problem. Classification of plants into 3 broad categories had worked well during the original survey, because once we had put in the 200 commonest species, we could ignore them on subsequent expeditions. It did mean however that we had to refind those 200 in every hectad because they were all dated pre-1987. It sounds straightforward, but in those which have no towns or even villages of any size, it is surprisingly difficult to find some of the commonest ruderals. At the other end of the spectrum many rarer records needed updating. They all had 6-figure grid references and details, which is

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a great help in re-locating, and the exercise is keeping us on track for an eventual update of the *Flora*. A bonus too was that the search often led to new v.c. records like *Asplenium irride* and *Crepis biennis* or treasure-trove like swathes of *Orchis morio* not recorded in v.c. 47 since the early post-war years when "improvement" was king.

The main decision to be made was computer or paper for Atlas 2000. Only the 500+ species which were neither very common nor rare were computerised and mapped for the *Flora* on a tetrad basis (although actually recorded on a 1km basis). I had no computer and was an unlikely new entrant into the high-tech world. A volunteer was willing to have a go with the help of Bio-Base, but starting from scratch as we were can take longer than working manually. So it was back to paper. The Mastercard option has proved versatile and manageable enough to fit in with our particular circumstances. I can add records as they come in and when time allows. I can also see what is missing like the alien conifers, which are a major feature of our upland landscape, but have been largely ignored so far. There are still decisions to be made on status. I know it was A, but was it E.S.C. or P.? There are still the very common and quite scarce plants to be found, which must be out there somewhere, but there is always next year!

Marjorie Wainwright

Atlas 2000: Recording in Caernarfonshire (v.c. 49)

Since I was appointed v.c. recorder in April 1996, much recording has been done mainly by Wendy McCarthy, Bob Lewis, my wife and myself. Over 1000 new hectad records have been made in that time, although mainly of common species. Many common aliens, such as *Cotoneaster simonsii*, *C. horizontalis*, *Crocasmia x crocosmiifolia*, *Linaria purpurea*, *Cerastium tomentosum*, *Hyacinthoides non-scriptus*, *Prunus laurocerasus*, etc. had not been recorded before and this has increased the numbers considerably.

The winter of 1996/97 was spent compiling master cards from inherited site recording cards as well as new ones from 1996. It also involved going through *Flowering Plants of Wales* by R.G. Ellis (FPW) and adding these records to the master cards. FPW was published in 1983 and included the records from *The Flora of Anglesey and Caernarfonshire* by J.E. Griffith and also a large number of records from West Lleyrn from Ann Conolly. One of the problems is that, as yet, I do not know whether the records from FPW are pre- or post- 1970, so I have to assume they are pre-, although a large number of them have been updated during the last three years. Another problem is, if hectads are shared between v.c. 49 and an adjacent one such as v.c. 50, Denbighshire, then I cannot necessarily assume the record is in v.c. 49, so I don't record its presence. Another good source of records has been Welsh Plant Records compiled by R.G. Ellis in the BSBI Welsh Bulletins.

I received my computer in January 1997 and worked very hard during that winter and managed to compute all my records by late spring, so I only have to add new records and updates now. I use the ADITSITE software and find it very satisfactory.

The latest figures for numbers of taxa in each hectad are shown:

Hectad	1987+	Pre-1970	1970-1986
SH12	567	44	20
SH13	419	17	11
SH22	569	40	12
SH23	647	39	28
SH24	461	12	5
SH32	598	53	17
SH33	711	61	32
SH34	535	13	5
SH43	616	52	6
SH44	585	36	7
SH45	680	24	4
SH46	449	12	0
SH53	574	30	2
SH54	541	64	9
SH55	497	34	5
SH56	676	87	19
SH57	545	45	12
SH64	296	4	2
SH65	507	40	7
SH66	635	51	12
SH67	564	20	1
SH74	290	0	1
SH75	615	39	15
SH76	653	67	22
SH77	822	105	25
SH78	764	103	31
SH84	267	1	2
SH85	374	4	5
SH86	345	9	4
SH87	568	52	13
SH88	556	66	13

All squares have been at least fairly thoroughly surveyed. The reason for the small numbers (less than 400) in 5 of the squares is because there is a far greater area in the adjacent vice-county, and there is little variety of habitat. SH77, incidentally, had the largest total of taxa in a hectad in the Monitoring Scheme, although it did include a small part of v.c. 50, Denbighshire. The records do include a few *Hieracia* and *Rubi*, which have been expertly determined.

The Snowdonia mountains have been pretty thoroughly recorded and I was well-acquainted with them already. West Llyn has been very thoroughly surveyed by Ann Conolly, but there are some problems with pre- and post- 1987 records, which we are, however, gradually sorting out. The rest of v.c. 49 did not seem to have been surveyed much because, as mentioned before, over 1000 new hectad records and a large number of updates have since been made. Even now, I seldom go out without recording something new.

I have only 2 regular helpers (apart from my wife) who come out recording with me, namely Wendy McCarthy and Bob Lewis. They also record in their adopted 3 hectads each in the Conwy Valley and North Wales Coast areas. I have also had help from Griff Williams, who also records in SH45, and Helen Hughes. Dewi Jones also sends me records mainly from the Pen y Groes area and the mountains. Mary and Tony Atkinson, who live in Cornwall, but who sometimes stay in the Lleyn with their daughter send me record cards from that area. John Hawksford, from Stockport, has adopted SH66, Bethesda area, and has made quite a few new records. I do also get occasional records from other people. I try to go myself, twice a week, often with just my wife.

I have good relations with the Countryside Council for Wales, The Snowdon National Park Authority, The National Trust and The North Wales Wildlife Trust. They have allowed me access to their records and we keep in touch.

I am also in the process of compiling a County Rare Plant Register. It would include the Nationally Scarce Plants and the Nationally Rare (Red Data) Plants of which 74 and 18 are respectively extant. The register would also contain Locally Rare Plants, known to be present within 3 or fewer 'sites' as defined by Farrell and Perring. At the moment the number of actual taxa within this category is rather uncertain because I am not familiar with all the sites, having only recently become recorder. However, this problem will be resolved in time. I would hope that the register would contain, for each taxon, at least name and status of site, 6-figure grid reference (except for very rare plants), habitat, year of record and approximate number.

Finally I should like to say that I feel very privileged to be recorder for Caernarfonshire since I think it is arguably botanically the most interesting vice-county in the whole of England and Wales.

Geoff Battershall

Atlas 2000: v.c. 50, Denbighshire

Recording in v.c. 50 has been progressing steadily during 1998 and the numbers of records are an indication of fieldwork done, and where it needs to be covered in 1999.

In planning recording for 1999, hectads with the fewest records will be targetted, while those with 500+ records will be considered "finished".

V.c. 50 has five hectads wholly in the vice-county, and thirty four part-hectads, shared with another vice-county. For field recording I treat these all the same, and aim to find 500+ in each hectad, or part hectad.

At the end of 1998 numbers are as follows:

Hectads with over 600 records	one	
Hectads with 500 to 600 records	eleven	
Hectads with 400 to 500 records	twelve	
Hectads with 300 to 400 records	nine	
Hectads with 200 to 300 records	three	
Hectads with 100 to 200 records	three	total of 39 hectads (or part)

Post 1986 records are stored on disc on DMAP
1970-1986 records are stored on disc on ADITSITE

These have all been submitted to Trevor Dines

Thanks to all the people who have submitted hectad cards, individual records, or who have come on recording meetings. We have got to know Denbighshire far better than I could have imagined. 1999 will be another good year for recording.

Jean A. Green

Atlas 2000: Progress in Flintshire (v.c. 51)

Flintshire is a small Welsh county, yet there are 15 10-km squares which are wholly or partly in the vice-county.

When we were recording tetrads for the *Flora of Flintshire*, over a period of about 16 years, there were a good number of active field botanists involved, perhaps a dozen or more. Many of them lived outside the county but were happy to get involved with the project. Now, with the Atlas 2000 survey, it's a different story! Everyone is busy in their own area, so we have to depend on a small handful of Flintshire workers. Nevertheless good progress has been made.

By the end of this season (1998) we will have produced good coverage for 12 out of the 15 squares, and we hope to make a spirited attack on the remaining three next year. For most of those squares with a substantial area in Flintshire the number of taxa recorded is about 500, with two squares just passing the 600 mark. These are field records for the period since 1987. When I have time to abstract the literature records the numbers should increase quite substantially.

A few 1st vice-county records have been achieved, including *Crambe maritima* at Prestatyn, *Cerastium pumilum* at Meliden, *Callitriche brutia* at Alltami, *Polygonum rurivagum* at Flint and *X Festulolium* at St. Asaph.

A number of long-lost plants have also been re-found, some after a gap of 75 years or more. These include *Pilularia globulifera*, *Fumaria purpurea*, *Dianthus armeria*, *Trifolium ornithopodioides*, *Crataegus laevigata*, *Bromus racemosus* and *Ceratochloa cathartica*. Quite a handful of casual aliens have also popped up.

I would like to thank all the local and visiting botanists for their help and hard work. It is much appreciated.

We look forward to the new Atlas with bated breath.

Goronwy Wynne

Atlas 2000: Project report - Anglesey (v.c. 52)

The main task in 1998 has been to set up a master card for each hectad covering the Island.

Initially these used the data compiled on card index cards by Mr R.H. Roberts over the long period of his vice-county recordership of Anglesey. However this showed up the shortage of post- 1987 records for most species. Access to later notebooks from Mr Roberts has partially solved this, as, has hopefully, the activities of a number of field recorders active in 1998 - though sight of most of the field cards is still eagerly awaited!

For the final recording season it is hoped to have lists of species for each hectad requiring post- 1987 records and to see how many can be refound before the autumn 1999 deadline.

If you have unsubmitted records in your notebooks, or would like to help in 1999, we should be very pleased to hear from you at Treborth Botanic Garden, Bangor, LL57 2RQ (telephone 01248 353398).

Nigel Brown and Ian Bonner

RED CAMPION AND SNAKES

In Wales, and also in Somerset and Hertfordshire, Red Campion (*Silene dioica*) has until recently been associated with Adders (*Vipera berus*). Mothers used to warn their children against picking up or playing near *S. dioica*. Welsh for Adder is Neidr, and Geoffrey Grigson says the wildflower was called Blodau'r Nadroedd or Blodau'r Neidr, while another source calls it Blodyn Toranau, all of which mean Adder's Flower, but don't ask me to explain all these different names: spelling them is enough!

I have puzzled over this connection for a long time and so have present-day Pembrokeshire locals who knew about it, eventually, in my case, storing it deep inside the brain where it "fermented" for years until a possible explanation bubbled to the surface, and as is always the way in such cases, why didn't it occur to me before?

Before intensive farming and forestry and before the creation of Pembrokeshire's 180 mile coast path, where would *S. dioica* have grown? About the only place would have been along the annually cut hedgebanks with that other biennial, the Foxglove (*Digitalis purpurea*), where they still grow together. Apart from arable fields most other sites, including under-grazed pastures, would have been more or less overgrown. Vital for seed germination and seedling survival for these two biennials is their exposure on more or less bare ground, and even today that is where most *S. dioica* and *Digitalis* flower (two years after mowing by County Council tractors).

The hedgebanks in the past would have been quietly (and perhaps lovingly) scythed by lengthmen and of course Adders like sites exposed to the sun too, particularly in the spring. They start to sunbathe in March (and sometimes February) in Pembrokeshire and continue throughout April and to a lesser extent May. In fact one

can guarantee to see them in the same sunny sites every spring, although nowadays these are usually alongside the coast path and not along noisy and dangerous roadsides or fieldsides. Frequently they are lying on "hay" (also sunbathing sites for shivering bumble bees and lizards), the piles of dead vegetation left by the previous years c.p. cutters.

S. dioica's flowering season is from April to June inclusive, but in the days when children, not "distracted" by television, eagerly picked wild flowers to please their mother it would have been during the early part of this season, when flowers were a novelty after a long, grey winter, that they might have disturbed a sunbathing Adder.

To confuse the issue *Hyacinthoides non-scripta* and *Orchis mascula* were also at one time called Adder's flowers which of course referred to woodland sites. But of these three only *S. dioica* in the past (and also in the present) usually grew on hedgebanks where Adders liked to sunbathe. At last I think I have made the connection.

Gordon Knight, 12 Ffordd y Felin, Trefin, Haverfordwest

RUBUS CHAMAEMORUS - a new site in Wales

In June 1998, while working on Fenn's moss (part of Fenn's , Whixall and Bettisfield Mosses National Nature Reserve), William Allmark came across some unfamiliar leaves. The plant was growing in a large patch 44m x 88m with satellite colonies. It was identified by one of us (J.L.D.) as *Rubus chamaemorus*. It was growing on bare peat with *Erica tetralix* , *Andromeda polifolia*, *Molinia caerulea*, *Calluna vulgaris* and *Eriophorum angustifolium*. There were no new buds or flowers, but old flower stalks were present from last year.

Rubus chamaemorus occurs in Wales only on the Berwyn mountains (SJ02, SJ03) growing above 600 metres. It is not uncommon in Scotland and in the uplands of Northern England (Perring and Walters, 1962). It has not been recorded in a lowland moss in Wales (the altitude of Fenn's moss is 90 metres). Fenn's moss has been well botanised, but is a very large area and the site where the plant was found was until recently covered with birch scrub. Has anyone seen this plant on Fenn's moss, or on another lowland moss? We can find no previous records of *R. chamaemorus* on the lowland mosses of Denbighshire or Shropshire, which has similar habitats to Fenn's moss. Could this plant be birdsown? The Berwyn are only 40km to the west as the crow (or the starling) flies.

Joan L. Daniels & Jean A. Green

Caption to photograph on p. 18.

Back row: Mike Porter, Peter Benoit, Julian Woodman, Geoff Battershall,
Arthur Chater, Marjorie Wainwright, Goronwy Wynne.

Front row: Stephen Evans, Gwynn Ellis (Hon. Gen. Sec.), Richard Pryce,
Quentin Kay, David Humphreys, Jean Green.

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WELSH PLANT RECORDS – 1996

Welsh Plant Records are compiled by Gwynn Ellis, 41 Marlborough Road, Roath, Cardiff, CF2 5BU, from reports of BSBI vice-county Recorders to whom records should preferably be sent. Plants are now listed for each county in the order of D.H.Kent's *List of Vascular Plants of the British Isles* (1992), and *Supplement 1* (1996), the number in those lists preceding the name, so that names changed since 1996 can be given without giving the former name. Latin names also follow Kent (1992) and *Supplement 1* (1996) or, if not in that list, the second edition of C.A.Stace's *New Flora of the British Isles* (1997), E.J.Clement & M.C.Foster's *Alien Plants of the British Isles* (1994) or T.B.Ryves, E.J.Clement & M.C.Foster's *Alien Grasses of the British Isles* (1996), authorities for Latin names are no longer given unless the name is not in any of these works. English names are those in *English Names of Wild Flowers* ed. 2 (1986) by Dony *et al.* or, if not in that list, Stace (1997), Clement & Foster (1994) or Ryves, Clement & Foster (1996). English names enclosed by square brackets do not occur in any of these books but are included in Davies & Jones (1995). Welsh names are those in Dafydd Davies & Arthur Jones' *Welsh Names of Plants* (1995).

The following symbols are used:

* to indicate a new v.c. record

+ to indicate a new hectad record

! to indicate that the species is not native to Wales

\$ to indicate a species which, although native in some parts of Wales, is not so in the locality recorded

|| to indicate that the record, previously published in error, should be deleted

† to indicate that the taxon is now believed to be extinct in the locality cited

Where entries consist of one record only, the symbols appear before the species number, where entries consist of more than one record, the symbols appear before each record, except for the † sign which, if required, is always placed before the species number.

In general only records which are additional to those given in *Flowering Plants of Wales* by R.G.Ellis (1983), *Distribution of Pteridophyta in Wales* by G.Hutchinson & B.A.Thomas (1992), *Flora of Flintshire* by G.Wynne, *Flora of Radnorshire* by R.G.Woods, *Flora of Glamorgan* by A.E.Wade *et al.*, and *Flora of Montgomeryshire* by I.Truman *et al.* are listed. Other records are included at the discretion of the vice-county recorder. The minimum grid reference is to a hectad but, if supplied by the recorder, references to a 1km or even a 100m square may be included. A letter in parenthesis following a 4 figure grid reference indicates a tetrad.

The Vice-county Recorders from 31/10/1998 are:

MONMOUTH, v.c. 35: Mr T.G.Evans, La Cuesta, Moun-ton Road, Chepstow, Monmouthshire NP6 5BS
GLAMORGAN, v.c. 41 (West): Dr Q.O.N.Kay, Dept. of Botany, University College, Singleton Park, Swansea, West Glamorgan SA2 8PP

GLAMORGAN, v.c. 41 (East): Mr J.Woodman, c/o CCW, Unit 4, Castleton Court, Fortran Road, Cardiff CF30LT

BRECON, v.c. 42: Mr M.Porter, Aberhoywy Farm, Cyffredyn Lane, Llangynidr, near Crickhowell, Powys NP8 1LR

RADNOR, v.c. 43: Dr D.R.Humphreys, Knill Court, Knill, near Presteigne, Powys LD8 2PR

CARMARTHEN, v.c. 44: Mr R.D.Pryce, Trevethin, School Road, Pwll, Llanelli, Carmarthenshire SA154AL

PEMBROKE, v.c. 45: Mr S.B.Evans, Glan-y-Mor, Dinas Cross, Newport, Pembrokeshire SA12 0UQ

CARDIGAN, v.c. 46: Mr A.O.Chater, Windover, Penyrangor, Aberystwyth, Dyfed SY23 1BJ

MONTGOMERY, v.c. 47: Mrs M.Wainwright, Troy, 1 Green End, Oswestry, Shropshire SY11 1BT

MERIONETH, v.c. 48: Mr P.M.Benoit, Pencarreg, Barmouth, Gwynedd LL42 1BL

CAERNARFON, v.c. 49: Mr G.Battershall, 15 Rhodfa'r Grug, Upper Colwyn Bay, Conwy LL296DJ

DENBIGH, v.c. 50: Mrs J.A.Green, Coed Duon, Tremeirchion, St Asaph, Denbighshire LL17 0UH

FLINT, v.c. 51: Dr G.Wynne, Gwylyfa, Lixwm, Holywell, Flintshire CH8 8NQ

ANGLESEY, v.c. 52: Dr N.H.Brown, Treborth Botanic Garden, University College of North Wales, Bangor, Gwynedd LL57 2RQ and Mr I.R.Bonner (all correspondence to Dr Brown).



Welsh vice-county recorders at the BSBI Wales AGM, held in Coleg Harlech, August 1998 (names on p. 16).

MONMOUTH, v.c. 35 (comm. T.G.Evans)

- 5/2/1. *Botrychium lunaria* (Moonwort) (Lloerlys). 1 plant in slightly acidic grassland, Griffithstown, ST/28.99, J. Woodman *et al.*, 1992; +a patch in semi-improved meadow, MOD Caerwent, ST/47.91, J. Woodman, 1993, & 3 plants in old coal waste deposits E of Garn-yr-Erw, SO/24.10, King's College Group, 1995; spoil tip, The British, Abersychan, SO/25.04, S. Williams, 1996. A very occasional plant, rarely in double figures.
- 31/4/1. *Ceratocarpus claviculata* (Climbing Corydalis) (Mwg y Ddaear Gafaelgar). Woodland, Keneyes Inferior, ST/39.92, J.D.R. Vernon, 1996.
- 33/1/1 + 2 + 4. *Ulmus* × *hollandica* (*U. glabra* × *U. minor*/*U. glabra* × *U. minor* × *U. plotii* (Dutch Elm). Hedge, E of Tal-y-coed, SO/42.14, T.G.Evans, 1994.
- !35/2/1. *Ficus carica* (Fig) (Ffigysbren). Wall near Ffrwd Bridge, SO/26.04, R. Hewitt, 1994.
- !43/1/5. *Chenopodium glaucum* (Oak-leaved Goosefoot) (Troed yr Wydd Dderw-ddeiliog). Hundreds of plants at top of low cliffs, Uskmouth Power Station, ST/33.82, T.G.Evans, 1996. With *Salicornia ramosissima*.
- !43/2/1. *Bassia scoparia* (Summer-cypress). 1 casual plant among flotsam on bank of R. Rhymney, Llanrumney, ST/21.79, T.G.Evans, 1995.
- *43/3/2 + 4. *Atriplex* × *gustafssoniana* (*A. prostrata* × *A. longipes*) (Kattegat Orache). Many plants mixed with *A. procumbens* on upper shore and rocks of sea wall, Uskmouth, ST/33.82.; +upper saltmarsh, Blackrock, ST/51.88, both T.G.Evans, 1996. First and second records.
- \$43/3/6. *Atriplex littoralis* (Grass-leaved Orache) (Llygwyn Arfor). 3 plants on top of sea wall, SW of Lighthouse Inn, T.G.Evans, 1996.
- !45/2/2. *Claytonia sibirica* (Pink Purslane) (Gwlyddyn Rhudd). Edge of R. Usk, N of Usk, SO/37.01, J.D.R. Vernon, 1996.
- 45/3/1d. *Montia fontana* subsp. *chondrosperma*. Dryish tump in meadow, Graig Wood, W of Abergavenny, SO/25.16, T.G. & U.T. Evans, 1996.
- 46/17/4. *Spergularia rubra* (Sand Spurrey) (Troellys Coch). On added rubble and soil at N side of sea wall, SW Newton Farm, ST/23.77, T.G.Evans, 1996. Imported with 'soil'.
- *47/5/1 + 2. *Fallopia* × *bohemica* (*F. japonica* × *F. sachalinensis*). Scattered along ditch / roadside, E bank of R. Rhymney, NE of Michaelstone Bridge, ST/24.86, T.G.Evans, 1996. Conf. A.P. Conolly. Some *F. japonica* present.
- +47/8/13b. *Rumex crispus* subsp. *littoreus* (Curled Dock) (Tafol Crych). Less than 10 plants on sea wall, upper saltmarsh, ST/27.80; +about 10 plants, sea wall, Lamby, ST/22.77, both T.G.Evans, 1996.
- 47/8/22. *Rumex palustris* (Marsh Dock) (Tafol y Llaidd). 8 plants in same ditch, Undy Pool, ST/44.86, T.G.Evans, 1996. Absent here since 1980s.
- +48/1/1. *Limonium vulgare* (Common Sea-lavender) (Lafant y Môr). Upper saltings, near Peterstone Court, ST/27.80, C. Titcombe, 1994; upper saltings, 2 plants near lighthouses and 10-20 plants S of 'Farmfield', Uskmouth Power Station, ST/32.82, T.G.Evans, 1996.
- *51/1/6 + 7. *Hypericum* × *desetangii* (*H. perforatum* × *H. maculatum*) (Des Etangs' St John's-wort). Side of forest track, Thicket Wood, Rogiet, ST/44.88, T.G.Evans, 1991; +small wood, Cwmcarvan, SO/48.07, J. Harper, 1991. First and second records.
- *75/8/34. *Rubus albonis* (a bramble). Wooded path edge, Mescoed Mawr, ST/27.89, T.G.Evans, M. Porter & R.D. Randall, 1996.
- *75/8/143. *Rubus winteri* (a bramble). Alder carr, Henllys Fen, ST/26.92, T.G.Evans, 1996. Det. A. Newton.
- *75/8/161. *Rubus surrejanus* (a bramble). Woodland edge, N of Gray Hill, ST/42.93, R.D. Randall, 1993.
- *75/8/184. *Rubus glareosus* (a bramble). Wooded path edge, Mescoed Mawr, ST/27.89, T.G.Evans, M. Porter & R.D. Randall, 1996.
- *75/8/314. *Rubus pictorum* (a bramble). Hedge, NW of White House, SO/42.22, M. Porter & R.D. Randall, 1993.
- *75/8/ari. *Rubus ariconiensis* (a bramble). Woodland, Kingswood, SO/46.12, M. Porter & R.D. Randall, 1993.

- *75/8/Bea. *Rubus* 'Beacon Hill Serpens'. Woodland, Wentwood, ST/42.95, R.D.Randall, 1993.
- *75/8/isc. *Rubus iscanus* (a bramble). Woodland, Kingswood, SO/46.12, M.Porter & R.D.Randall, 1993.
- *75/8/vag. *Rubus vagensis* (a bramble). Woodland, Kingswood, SO/46.12, M.Porter & R.D.Randall, 1993.
- +75/17/3a. *Sanguisorba minor* subsp. *minor* (Salad Burnet) (Gwyddldwn Cyffredin). Sloping stony ground, W of Castle Farm, Bishton, ST/38.88, T.G.Evans, 1996.
- 75/21/12+13. *Rosa* * *dumalis* (*R. canina* * *R. caesia*). 1 large plant with noticeable red stems and glaucous leaves, Wet ditch / path side at field boundary, Bishton, ST/39.87, T.G.Evans, 1996.
- 75/28/9+24. *Sorbus* * *vagensis* (*S. aria* * *S. torminalis*) (a hybrid whitebeam). Steep wooded slope, Cliff Wood, Mounton, ST/50.93, G. Lock, 1996. The second tree in the area, W.A.Shoolbred recorded it pre-1990.
- *!77/15/10. *Lathyrus heterophyllus* (Norfolk Everlasting-pea). Extensive area on old railway ballast, Pye Corner, Bissaleg, ST/27.87, T.G.Evans, 1996. First Welsh record.
- +77/19/13. *Trifolium micranthum* (Slender Trefoil) (Meillionen Felen Eiddil). Track, Cwmcayo Farm, SO/37.02, T.G.Evans, 1996. Farming methods have reduced this to a scarce species.
- +91/2/6. *Euphorbia platyphyllos* (Broad-leaved Spurge) (Fflamgoed Lydanddail). 3 plants in wet ditch, Bishton, ST/39.87, T.G.Evans, 1996. A rare v.c. plant and first outside garden weed status.
- +!93/1/1. *Vitis vinifera* (Grape-vine) (Gwinwydden). Between concrete seawall and large rocks on the seaward side, S of Seabank Farm, Lamby, ST/23.77, T.G.Evans, 1996. Flourishing at this self-sown site.
- +94/1/1. *Linum bienne* (Pale Flax) (Llin Cuddail). Rough grass reached only by spring tides, Lamby, ST/22.77, T.G.Evans, 1996.
- *!107/1/ram. *Hydrocotyle ranunculoides* (Floating Pennywort). 4 large patches, Broadway Reen, Marshfield, ST/26.81, T.G.Evans, 1996.
- +107/17/1. *Crithmum maritimum* (Rock Samphire) (Corn Carw'r Môr). Road verge near M4, Rogiet, ST/45.88, R.D.Randall, 1993; 1 large plant on artificial stone seawall, S. of Caldicot, ST/48.87, T.G.Evans, 1996. Surely originated from the colony on the cliffs at Sudbrook 1.5km away.
- +107/26/3. *Bupleurum tenuissimum* (Slender Hare's-ear) (Paladr Trwyddo Eiddiddail). 50-100 plants at edge of grassy sward, NE of Runney Great Wharf, ST/25.78; +about 50 plants W side of Pill margin, Mathern Pill, ST/53.90, both T.G.Evans, 1996.
- +107/29/2. *Petroselinum segetum* (Corn Parsley) (Eilunberllys). Top of seawall S of angling lake, StBride's Wentlooge, ST/29.80, T.G.Evans, 1996.
- !110/8/ros. *Solanum rostratum* (Buffalo-bur). One plant in soil at edge of farmac drive, Berryhill Fruit Farm, Coedkernew, near Newport, ST/26.84, A.R. Perry, 1996.
- +!111/3/3. *Calystegia pulchra* (Hairy Bindweed) (Taglys Blewog). Roadside, Pant-de, Aberbeeg, SO/20.01, T.G.Evans, P.P.Abbott & T.P.Bartlett, 1996.
- +!115/1/1. *Phacelia tanacetifolia* (Phacelia). about 300 plants in strip across rape field, E of Gwern-eiddig, SO/41.06, J.D.R. Vernon, 1996; +planted to keep away aphids?; 1 plant in meadow, Greenacres, Mitcheltroy, SO/49.10, L.M.Williams, 1996. Second and third records.
- 116/1/2. *Lithospermum officinale* (Common Gromwell) (Maenhad Meddygol). Wood edge bank, SE of Great Dinham, ST/48.91, T.G.Evans, 1996. A diminishing plant due to farming practices.
- 116/2/1. *Echium vulgare* (Viper's-bugloss) (Glas y Graean). Hundreds of plants on waste ground, Severn Tunnel Junction, ST/46.87, T.G.Evans, C.Titcombe & D. Upton, 1996.
- 116/15/9. *Myosotis ramosissima* (Early Forget-me-not) (Ysgorpiionllys Cynnar). Outcrop above Hancock Quarry, SO/5415, B.J.Gregory, 1995. A diminishing species due to farming procedures.
- +116/15/10. *Myosotis discolor* (Changing Forget-me-not) (Ysgorpiionllys Amryliw). about 30 plants in wet meadow, NW of Llanthony, SO/28.27, T.G.Evans, 1996.
- +118/16/1. *Melissa officinalis* (Balm) (Gwenyuddail). One large plant on launeside, S of Church Farm, Redwick, ST/41.84, T.G.Evans, 1996.
- +118/21/2. *Thymus pulegioides* (Large Thyme) (Gruwlys Gwyllt Mwyaf). Short grassland, Skirrid Farm, SO/32.16, J.Woodman & I. Colohoun, 1991; 1000's of plants on steep upland, The Fferm, SO/26.25, 1991 & on sheep grassland, Buckholt, SO/52.14, 1992, both J. Woodman & C.Mockridge.

- !118/2/33-4. *Mentha × villosa* (*M. spicata* × *M. suaveolens*) (Apple Mint) (Mintys Lled-grynddail). Old railway ballast, Bassaleg, ST/27.87, T.G.Evans, 1996.
- 121/1/4. *Plantago media* (Hoary Plantain) (Llwynhdydd Llwyd). Grassland, Woodcock Hill, ST/44.90; improved limestone grassland, Common-y-coed, ST/43.89, both J.D.R. Vernon, 1996. The latter was the site of *Prunella lac.*, *Platanth. chlor.* and *Trifolium striatum*, all now gone.
- *123/1/sus.vir. *Forsythia × intermedia* (*F. suspensa* × *F. viridissima*) (Forsythia). Bank of R. Ebbw, Risca, ST/2.9, J.Harper, 1992. The R. Ebbw bank has been reinforced and raised and many strange, planted? species have appeared there; this may be one of them.
- 124/1/9. *Verbascum nigrum* (Dark Mullein) (Pannog Tywyllddu). SW shingle bank of R. Usk, 0.8km downstream from Penpergwm Railway Bridge, SO/3.1, J.N.Davies, 1996.
- *124/20/8. *Euphrasia pseudokernerii* (an eyebright). Turf over Carboniferous Limestone, S of Little Dinham Wood, T.G.Evans, 1994. Det. Dr A.J.Silverside.
- 125/2/8. *Orobancha hederæ* (Ivy Broomrape) (Gorfanc Eiddew). Under mature ivy covered conifer, Larkfield, ST/52.93, T.G.Evans, 1995 & 1996; between 30-50 plants on ivy among gravestones under trees, St Mary's Churchyard, Chepstow, ST/30.93, J.D.R.Vernon & T.G.Evans, 1996. Now almost confined to Chepstow area as ivy has been cleared off many castles in the county.
- *135/25/1.34. *Taraxacum exsertiforme* (a dandelion). Forest road, N of Howick, ST/50.95, Hans Öllg. *et al.*, 1996.
- *135/25/140. *Taraxacum horridifrons* (a dandelion). Roadside, Cleddon, SO/51.03, International Taraxacum Group, 1996. Det. A.J.Richards, Hans Öllg. *et al.*
- *135/25/159. *Taraxacum lucidum* (a dandelion). Shady bank, Caerllan, SO/49.82, International Taraxacum Group, 1996. Det. A.J.Richards, Hans Öllg. *et al.*
- *135/25/170. *Taraxacum nitidum* (a dandelion). Shady bank, Caerllan, SO/49.08, International Taraxacum Group, 1996. Det. A.J.Richards, Hans Öllg. *et al.*
- *135/25/189. *Taraxacum pseudoretroflexum* (a dandelion). Cleddon Lane verge, Cleddon, SO/51.03, T.G.Evans, 1996.
- *135/25/215. *Taraxacum tumentilobum* (a dandelion). Roadside bank, New House Roundabout, M48, ST/53.91, T.G.Evans, 1996. Det. A.J.Richards.
- *135/25/ope. *Taraxacum opertum* H.Öllg. ined. (a dandelion). Forest roadside, N of Howick, ST/50.95, Hans Öllg. *et al.*, 1996
- +135/53/1. *Achillea ptarmica* (Sneezewort) (Distrewlys). Wattwood Hill, Bishton, ST/39.88, J.D.R.Vernon, 1996. A diminishing plant brought about by use of land drains.
- 135/62/18. *Senecio viscosus* (Sticky Groundsel) (Creulys Gludiog). On broken asphalt in churchyard, Rhymney, SO/11.08, C.Titcombe, 1996.
- 137/1/1. *Sagittaria sagittifolia* (Arrowhead) (Saethlys). Very dense clump over 40m sq., Broadway Reen, Peterstone, ST/27.81, T.G.Evans, 1996. This species seems to do well in undisturbed reens.
- !138/6/1. *Lagarosiphon major* (Curly Waterweed) (Pib-flodyn Crych). Water Park, Cypress Way, St Mellons, ST/24.81, G.Hutchinson, 1994. There is a proliferation of ponds on industrial sites between Newport and Cardiff with some exotics and aliens being planted, T.G.Evans.
- 148/3/1. *Wolffia arrhiza* (Rootless Duckweed) (Llinad Diwraidd). Seawall Reen, Goldcliff, ST/34.82, T.G.Evans, 1996. An extension to the apparent range of this duckweed in v.c. 35.
- *151/1/6. *Juncus foliosus* (Leafy Rush) (Brwynen Ddeiliog). Wet meadow, Ty'r Sais Farm, near Pen-y-fan Pond, SO/18.00, T.C.G.Rich, P.A.Smith & S.E.Erskine, 1996.
- +151/1/20. *Juncus maritimus* (Sea Rush) (Brwynen Arfor). Large colony in upper saltmarsh, Uskmouth Power Station, ST/33.82, T.G.Evans, 1996.
- 151/2/1. *Lucula forsteri* (Southern Wood-rush) (Coedfrwynen Gulddail). Footpath edge, Graig Wood, SO/25.16, T.G. & U.T. Evans, 1996.
- +152/16/7. *Carex spicata* (Spiked Sedge) (Hesgen Dywysennog Borffor). Hundreds of plants in wet hollow by railway, Undy, ST/44.87, T.G.Evans, 1996.
- +152/16/34. *Carex strigosa* (Thin-spiked Wood-sedge) (Hesgen Ysbigog Denau). Wet woodland, Triley Great Wood, SO/30.17, 1991; +pondside, E of Coed-y-paen, ST/35.98, 1995, both T.G.Evans; +1-2 plants, damp wood, W of Bishton, ST/38.87, T.G.Evans; +stream side, Clapper's Wood, SO/46.18, T.G. & U.T.Evans, both 1996.

- +152/16/39. *Carex laevigata* (Smooth-stalked Sedge) (Hesgen Ylfinog Lefn). Wet ditch at forest trackside, Graig Fawr, Aberbeeg, SO/20.01, P.P.Abbott, T.G.Evans & T.P.Bartlett, 1996.
- +152/16/43. *Carex extensa* (Long-bracted Sedge) (Hesgen Hirian). Saltmarsh, S of Uskmouth Power Station, ST/32.82, T.G.Evans, 1996.
- +152/16/44. *Carex hostiana* (Tawny Sedge) (Hesgen Dywyll-felen). about 20 plants in marsh, Steppes Farm, Gwernesney, SO/42.01, T.G.Evans, 1996.
- 152/16/44+46a. *Carex hostiana* × *C. viridula* subsp. *brachyrrhyncha*. Valley bog, Pont Esgob, near Forest Coal Pit, SO/28.20, W.C.Barton, 1903. Det. A.O.Chater, 1997. Originally recorded as *Carex distans* × *C. flava*, herb. **BM**.
- +152/16/47. *Carex pallescens* (Pale Sedge) (Hesgen Welwlas). Wet heath, Coed Llifos, ST/45.96, T.G.Evans, 1993; +woodland path, Pen-yr-heol, SO/30.07, T.G. & U.T.Evans, 1994.
- +152/16.1. *Carex paniculata* (Greater Tussock-sedge) (Hesgen Rafunog Fwyaf). About 10 tufts, wet area by side of R. Ebbw, Aberbeeg, SO/20.01, P.P.Abbott, T.G.Evans & T.P.Bartlett, 1996.
- 153/47/6. *Alopecurus myosuroides* (Black-grass) (Cynffonwellt Du). In rubble and soil added to sea wall, SE of Maerdy Farm, ST/23.77, T.G.Evans, 1996. Now an uncommon weed.
- +158/24/7. *Allium triquetrum* (Three-cornered Garlic) (Cenlhinlen Drichorne). Churchyard, Bettws Newydd, SO/36.05; +roadside above R. Usk, Usk, SO/30.07, both D.Price, 1995.
- +158/35/1. *Ruscus aculeatus* (Butcher's-broom) (Celynnen Fair). Hedge by old cottage, near Llanvapley Court, SO/36.15, J.D.R.Vernon, 1996.
- 162/5/1. *Neottia nidus-avis* (Bird's-nest Orchid) (Tegeirian Nyth Aderyn). Woodland, Upper Fron Wood, E of Devauden, ST/49.98, A.Wareham & E.Wood, 1995 & 1996.

GLAMORGAN, v.c. 41 (comm. Q.O.N.Kay & J. Woodman)

- +119/1/1. *Azolla filiculoides* (Water Fern) (Rhedynen y Dŵr). Settling pond, Aberthaw Cement Works, ST/03.67, M.Hampton, 1996. The only extant Glamorgan site.
- +145/2/2. *Claytonia sibirica* (Pink Purslane) (Gwlyddyn Rhudd). North bank of River Rhymney, N of Llanrumney school, ST/209.803, 1995, J.P.Woodman. Only extant Glamorgan site.
- *147/5/1 × 2. *Fallopia* × *bohemica* (*F. japonica* × *F. sachalinensis*). Along about 30m stretch of roadside, N of Michaelstone Bridge, ST/24.85, T.G.Evans, 1996.
- +62/12/3. *Rorippa islandica* (Northern Yellow-cress) (Berwr Melyn y Gogledd). Small population of about 5 plants in muddy disturbed ground in marshy grassland, Cwm Risca Meadow SSSI, SS/87.84, J.Woodman, 1996. Conf. A.O.Chater. Second record.
- *91/2/7. *Euphorbia serrulata* (Upright Spurge) (Llaethlys Mynyw). 30+ plants on calcareous waste ground, The Orchards, Llanishen, Cardiff, ST/17.81, D.Green, 1995.
- +110/4/1. *Hyoscyamus niger* (Henbane) (Ffa'r Moch). Tremorfa, Cardiff, ST/214.773, 1992. P.H.Russell, 1992. G.Hutchinson.
- *135/18/1. *Scorzonera humilis* (Viper's-grass) (Llys y Wiber). Flushed marshy grassland, Cefn Cribwr Meadows SSSI, SS/85.83, J.P.Woodman, 1996. Conf. P.D.Sell & A.O.Chater.
- *1148/2/4. *Lemna minuta* (Least Duckweed) (Corlinad). Locally abundant, with *L. minor*, in shallow water in moat & fish pond in Botanic Garden, University College of Swansea, SS/62.91, Q.O.N.Kay, 1996.
- +151/1/25 × 26. *Juncus* × *diffusus* (*J. effusus* × *J. inflexus*) (Diffuse Rush) (Brwynen Dryledol). Edge of rush pasture, Drope Farm, Drope, ST/103.757, J.P.Woodman, 1996.
- +152/1/1. *Eriophorum angustifolium* (Common Cottongrass) (Plu'r Gweunydd). Flush near Barry, ST/082.688, M.Hampton, 1996.
- 152/16/54. *Carex montana* (Soft-leaved Sedge) (Hesgen Feddal). Several clumps in flushed *Molinia* grassland, Cwm Bargod nr Merthyr Tydfil, SO/087.033, J.P.Woodman & K.S.Westwood, 1996.
- +153/17/3. *Briza maxima* (Great Quaking-grass) (Crydwellt Mwyaf). Whitchurch, Cardiff, ST/16.79, G.Hutchinson, 1994.

BRECON, v.c. 42 (comm. M.Porter)

- *15/2/5c. *Asplenium trichomanes* subsp. *pachyrachis* (Maidenhair Spleenwort) (Duegredynen Gwallt y Forwyn). Limestone rocks near Pontneddfechan, SN/91.08, M.Porter, 1995. Det. J.C.Vogel & A.C.Jermy.
- *15/3/6/1. *Abutilon theophrasti* (Velvetleaf). 3 flowering plants in swede field, Ty Mawr, Llysdinam, SN/99.57, K.Hughson & R.G.Woods, 1996.
- *\$62/2/3/3. *Cochlearia officinalis* (Common Scurvygrass) (Llwylys Cyffredin). Roadside about 2.5km NW of Erwood, SO/075.444, R.G.Woods, 1994. First record. This record replaces the one below.
- ~~!\$62/2/4/5. *Cochlearia danica* (Danish Scurvygrass) (Llwylys Denmare). Roadside about 2.5km NW of Erwood, SO/075.444, R.G.Woods, 1994. This record was an error for the one above]~~
- +75/8/221. *Rubus pascuorum* (a bramble). Hedge, N of Pentre-bach, SN/91.33, M.Porter, 1995.
- +!110/9/1. *Datura stramonium* (Thorn-apple) (Meiwyn). Rough pasture, N of Llanafan Fawr, SN/95.58, W.J.H.Price, 1996.
- *!115/1/1. *Phacelia tanacetifolia* (Phacelia). Weed on garden path, Cwm Gwdi, 3km SW of Brecon, SO/02.26, C.H.G.Allum, 1996. Introduced with bird seed?
- +121/1/4. *Plantago media* (Hoary Plantain) (Llwynhidydd Llwyd). Lawn, Hospital grounds, Talgarth, SO/16.33, M.Porter, 1996.
- *124/20/3-7. *Euphrasia anglica* × *E. nemorosa* (a hybrid eyebright). Rough grassy bank, Cwm Fforch, SO/09.37, M. Porter, 1982. Det. A.J. Silverside.
- *124/20/7-19. *Euphrasia nemorosa* × *E. scottica* (a hybrid eyebright). Flushes along forestry ride, Garwnant, SN/99.13, M.Porter, 1989. Det. A.J.Silverside.
- *124/20/14. *Euphrasia ostenfeldii* [Northern Eyebright] (Effros â Dail Blewog). Flush by rocky outcrop, Nant Irfon, SN/84.53, M.Porter, 1995. Det. A.J.Silverside. First record south of Snowdonia.
- +!129/7/2. *Lobelia erinus* (Garden Lobelia). Disturbed roadside verge beside B4358, Beulah, SN/92.51, R.G.Woods, 1996. Second record.
- *135/25/62. *Taraxacum fulgidum* (a dandelion). Meadow, Llangasty Tal-y-llyn, SO/12.25, A.J.Richards *et al.*, 1996.
- *135/25/93. *Taraxacum lancidens* (a dandelion). Meadow, Llangasty Tal-y-llyn, SO/12.25, A.J.Richards *et al.*, 1996.
- *135/25/96. *Taraxacum primum* (a dandelion). Lane verge, grassy bank, 3km N of Ponsticill, SO/05.14, M.Porter, 1995. Det. A.J.Richards.
- *135/25/124. *Taraxacum curtifrons* (a dandelion). Bank of old lane, Llangynidr, SO/22.19, M.Porter, 1996. Det. A.J.Richards.
- *135/25/153. *Taraxacum leptaleum* (a dandelion). River bank, Llangynidr, SO/15.20, A.J.Richards *et al.*, 1996.
- *135/25/159. *Taraxacum lucidum* (a dandelion). Pasture at edge of Llangorse Lake, Llangasty Tal-y-llyn, SO/13.26, M.Porter, 1995. Det. A.J.Richards.
- *135/25/173. *Taraxacum obtusifrons* (a dandelion). River bank, Llangynidr, SO/14.20, A.J.Richards *et al.*, 1996.
- *135/25/edm. *Taraxacum edmonsonianum* (a dandelion). Bank of old lane, Llangynidr, SO/14.19, M.Porter, 1996. Det. A.J.Richards.

RADNOR, v.c. 43 (comm. D.R.Humphreys)

- +!75/21/6. *Rosa rugosa* (Japanese Rose) (Rhosyn Japan). One large bush persisting on site of former tip, Aberedw Rocks, SO/07.45, R.G.Woods, 1996.
- +!103/1/17. *Geranium macrorrhizum* (Rock Crane's-bill). One large clump persisting on site of former tip, Aberedw Rocks, SO/07.45, R.G.Woods, 1996.
- *!115/1/1. *Phacelia tanacetifolia* (Phacelia). Garden path, Presteigne, SO/31.64, S.Voelcker, 1996. Det. D.R.Humphreys.

- *1131/6/3. *Lonicera involucrata* (Californian Honeysuckle) (Gwyddfid California). Streamside, Davids Well, SO/06.78, D.R.Humphreys & E.R.Dean, 1996. Det. R.G.Woods.
- +158/31/1a. *Leucojum aestivum* subsp. *aestivum* (Summer Snowflake) (Eiriaidd). Several clumps up a S facing slope in ash/oak/hazel woodland, Court Evan Gwynne, Clyro, SO/21.44, R.G.Woods, 1996. Probably introduced with *Galanthus nivalis*, *Narcissus obvallaris* & *Leucojum vernum*.
- +158/31/2. *Leucojum vernum* (Spring Snowflake) (Eiriaidd y Gwanwyn). 2 clumps on left bank of stream, Court Evan Gwynne, Clyro, SO/21.44, R.G.Woods, 1996. Probably introduced but apparently long naturalised.

CARMARTHEN, v.c. 44 (comm. R.D.Pryce)

- +*Chara aspera* var. *curta* (Rough Stonewort). Pool in sand dunes, Pembrey Country Park, SN/39.00, N.Stewart, 1996. Second record.
- **Chara contraria* var. *hispidula* (Opposite Stonewort). Conservation Pond excavated c.10 yrs ago in coastal dunes, Pembrey Country Park, SN/39.00, N.Stewart; + 'Ski-slope Pond' excavated c.5 yrs ago in coastal dunes, Pembrey Country Park, SN/40.90, R.D.Pryce, both 1996. First and second records for variety, second and third for the species.
- +*Tolypella glomerata* (Clustered Stonewort). Abundant in eutrophic pond in disturbed dune meadow, Pembrey Country Park, SN/40.00, R.D.Pryce, 1996. Third record.
- +5/1/1. *Ophioglossum vulgatum* (Adder's-tongue) (Tafod y Neidr). In *Agrostis capillaris* dominated pasture, Coedhirion, about 3km WNW of Llansadwrn, SN/67.33, A.O.Chater, 1996.
- 5/2/1. *Botrychium lunaria* (Moonwort) (Lloerlys). Meadow, near Nantsais, SN/34.33, J.A.Green & W.McCarthy, 1996.
- +128/5/1. *Nigella damascena* (Love-in-a-mist). Talley, SN/65.32, J.A.Green & W.McCarthy, 1996.
- +29/1/1. *Berberis vulgaris* (Barberry) (Eurdrain). Large old bush in hedge by old farm, Hermon, SN/36.32, J.A.Green & W.McCarthy, 1996.
- +46/1/2. *Scleranthus annuus* (Annual Knawel) (Dinodd Blynnyddol). Dry, acid, track-side bank, well grazed, Cefn Telych, SE of Llandovery, SN/78.33, H.J.Killick, 1996. First record for about 25 years.
- +161/1/3 *del. *Populus* × *canadensis* 'Serotina' (*P. nigra* subsp. *nigra* × *P. deltoides*) (Black-Italian Poplar). Farmyard, Fron Farm, SN/67.32; huge old tree by farm, 3km NM of Llanwrda, SN/68.33, both A.O.Chater, 1996.
- !61/1/3 *del. *Populus* × *canadensis* 'Robusta' (*P. deltoides* 'Cordata' × *P. nigra* 'Plantierensis'). Large tree on outskirts of village, Llansawel, SN/62.36, A.O.Chater, 1996.
- 62/12/3. *Rorippa islandica* (Northern Yellow-cress) (Berwr Melyn y Gogledd). Silt & rocks by R.Coethi, and nearby gravel in garden, Clwtau, near Pontargothi, SN/52.23, R.Goodchild, 1996. Known here for at least 10 years in the first site in the Coethi Valley.
- *!77/22/1 × 2. *Laburnum* × *watereri* (*L. anagyroides* × *L. alpinum*). Pure stand in hedge, Banc Blodeuyn, Mynydd Llanllwni, SN/48.35; + mainly a pure stand in hedgerow, Ffos-y-Gaseg, about 4km SW of Brechfa, P.A.Smith & A.O.Chater, 1996. First & second records.
- *!77/24/1. *Spartium junceum* (Spanish Broom) (Banadl Sbaeneg). 1 plant (self-sown?), roadside, Felinfoel, SN/52.02; + amenity plantings, Machynys, SS/50.97, both I.K.Morgan, 1996.
- *111/3/4. *Calystegia silvatica* var. *quinquepartita* (Large Bindweed) (Taglys Estroen). Scrambling over old tree-stump, SE edge of Llameddi churchyard, SN/588.066, G.Hutchinson & R.D.Pryce, 1996. Confirmation of Mrs A.M. Pell's 1995 record.
- +118/1/5 × 6. *Stachys* × *ambigua* (*S. sylvatica* × *S. palustris*) (Hybrid Woundwort) (Briwlys Croesryw). Persistent weed in garden, Pantylllyn, Blaenycod, SN/34.25, R.D.Pryce, 1996.
- 118/10/2. *Scutellaria galericulata* (Skullcap) (C'wewll). Small patch of white-flowered plants in marshy grassland on W side of canal between lakes, Talley, SN/63.33, D.Smith, 1996.
- +118/16/1. *Melissa officinalis* (Balm) (Gwenynddail). Grass verge of roadside lay-by, N of Rhydyffynon, SN/61.19, I.K.Morgan, 1996.
- +124/1/12. *Verbascum lychnitis* (White Mullein) (Pannog Gwyn). One strong plant by path, North Dock, Llanelli, SS/49.99, I.K.Morgan, 1996.

- 125/2/2. *Orobancha rapum-genistae* (Greater Broomrape) (Gorfanc Mwyaf). 12 spikes 0.8-1m tall, growing on gorse on heathy ground at edge of pasture field, Sir John's Hill, Laugharne, SN/30.09, J.Rees, 1996.
- 125/2/10. *Orobancha minor* (Common Broomrape) (Gorfanc Lleiaf). Improved mown grassland (originally dune meadow), W of North Dock, Llanelli, SS/49.99, R.D.Pryce; about 20 spent flowering spikes in rough grassland, Morfa, Llanelli, SS/50.98, Llanelli Naturalists, both 1996.
- +131/1/4. *Sambucus ebulus* (Dwarf Elder) (Ysgawen Fair). Population covering 15x2m in roadside hedge, Cwmfelin Boeth, SN/19.19, M.D.Atkinson & S.C.Thurston; +pure stand for about 12m of hedge, and mixed with other species for a further 50m in hedge on W side of road, near Henllan Farm, SN/19.20, J.A.Green & W.McCarthy; +10 stems among thick brambles in waste ground along urban roadside behind St David's Church, Hendy, SN/58.03, M.D.Atkinson & S.C.Thurston (much reduced since first discovered by R.D.Pryce in 1984); castle mound, Llandovery Castle, SN/76.34, H.J.Killick (first recorded here by Banks and Lightfoot in 1773), all 1996.
- +133/1/2. *Valerianella carinata* (Keeled-fruited Cornsalad) (Llysiau'r Oen Rhychiog). Mound of disturbed soil, 0.4km W of Dagfa Farm, 2.5km W of Halfway, SN/80.32, G.Hutchinson & J.Bevan, 1996.
- +!135/8/1. *Silybum marianum* (Milk Thistle) (Ysgallen Fair). One plant in farmyard, Pantyllyn, Blaenycloed, SN/34.25, R.D.Pryce, 1996.
- +!135/43/4. *Erigeron karvinskianus* (Mexican Fleabane) (Cedowydd y Clogwyn). 1 plant in mortar of old brick wall, Spowart Avenue, Llanelli, I.K.Morgan, 1996.
- *142/1/3. *Potamogeton coloratus* (Fen Pondweed) (Dyfrllys y Ffignen). Pond in sand dunes created about 5 years previously, Pembrey Country Park, SN/39.00, N.Stewart, 1996. Second record for S. Wales.
- +152/16/51. *Carex caryophylllea* (Spring-sedge) (Hesgen Gynnar). Meadow, near Nantsais, SN/34.33, J.A.Green & W.McCarthy, 1996.
- +162/6/1. *Listera ovata* (Common Twayblade) (Ceineirian). 2 plants with *Epipactis helleborine* & *Sanicula europaea*, SW corner of Allt Cae-dwgan, SN/52.34, M. & J. Iliif, 1996.
- 162/9/1. *Liparis loeselii* (Fen Orchid) (Gefell-lys y Ffignen). 11 plants in dune slack, E4 range, MoD Establishment, Pendine, SN/30.07, C. & J. Rees, 1996. First record since 1989 despite annual searches.
- +162/20/3. *Orchis morio* (Green-winged Orchid) (Tegeirian y Waun). Meadow, near Nantsais, SN/34.33, J.A.Green & W.McCarthy, 1996.

PEMBROKE, v.c. 45 (Comm. S.B.Evans)

- +5/1/1. *Ophioglossum vulgatum* (Adder's-tongue) (Tafod y Neidr). Several plants in grassland, Templeton Airfield, SN/10.11, R.J.Haycock & J.W.Donovan, 1996.
- 48/1/11. *Limonium parvum* [Pembroke Sea-lavender] (Corlafant Penfro). Several hundred plants on blow-hole rim in limestone sea cliff, E of Mewsford Point, Castlemartin, SR/94.93; splash zone in gully near top of limestone sea cliff, Stackpole NNR, SR/98.94, both S.J.Leach, 1993. Det. M.Ingrouille. Second records for Britain.
- 51/1/8. *Hypericum undulatum* (Wavy St John's-wort) (Eurinllys Tonnog-ddail). 7 large plants in marshy grassland ditch, W of Norchard Farm, Redberth, SN/07.04, E.Wilson, 1993.
- *173/1/1. *Crassula tillaea* (Mossy Stonecrop) (Anwywig). Abundant in compact soil amongst car park blocks, Manorbier car park, SS/06.97, J.W.Donovan, 1996.
- 77/25/2a. *Genista tinctoria* subsp. *tinctoria* (Dyer's Greenweed) (Melynog y Waun). Acid marshy grassland, Cold Inn Farm, East Williamstone, SN/10.04, M.Lang, 1994. One of several records of this taxon in its only geographical locality in v.c. 45.
- 107/2/2. *Petroselinum segetum* (Corn Parsley) (Eilunberllys). 2 populations in old limestone quarry, Radford Pill Quarry, Milton, SN/04.03, S.B.Evans, S.Schofield & C.Mosley, 1996.
- !110/9/1. *Datura stramonium* (Thorn-apple) (Meiwyn). 1 plant, with 15 fruits in disused farmyard, Clyne House, Martletwy, SN/02.10, T.Cole, 1996.

- +124/2/4. *Scrophularia scorodonia* (Balm-leaved Figwort) (Gornerth Gwenyddail). 200+ plants on waste ground in old ship-breakers yard, Wards Yard, Milford Haven, SM/91.05, J. & G. Hannah, 1996.
- 135/6/3. *Cirsium dissectum* (Meadow Thistle) (Ysgallen Gorswaun). A few plants only in unimproved acid marshy pasture, Cwm-blaen-bwlan, Capel Colman, SN/23.37, S. Andrews.
- +135/30/4. *Filago minima* (Small Cudweed) (Edafeddog Lleiaf). 100's to low 1,000's of plants scattered in short open turf on small stones, Trecwn Burning Ground, Llanychaer, SM/99.34, S.B. Evans *et al.*, 1996. Second record.
- \$153/52/5. *Anisantha madriensis* (Compact Brome) (Pawrwellt Dwysedig). Old limestone quarry, Radford Pill Quarry, Milton, SN/04.03, S.B. Evans, S. Schofield & C. Mosley, 1996.

CARDIGAN, v.c. 46 (comm. A.O. Chater)

- 1/3/1. *Lycopodium clavatum* (Stag's-horn Clubmoss) (Cnwpfwsogl Corn Carw). Sparse on N slope of Banc Mawr, Blaencaron, SN/727.603, A.O. Chater, 1996.
- 1/4/1. *Diphasiastrum alpinum* (Alpine-clubmoss) (Cnwpfwsogl Alpaidd). Co-dominant with *Festuca ovina* and *Nardus* on N slope of Banc Mawr, Blaencaron, SN/727.603, A.O. Chater; 1 small plant in fruit among *Lycopodium alpinum* on ungrazed heathy slope at E end of Esgair Fraith leadmine, SN/741.911, A.O. Chater & D.A. Pearman, both 1996.
- 6/1/1. *Osmunda regalis* (Royal Fern) (Rhedylen Gyfrdwy). E side of Rhos Rydd valley mire, 500m Nof Cefngraig-wen, SN/575.737, J. Turner, 1996.
- 15/3/1. *Ceterach officinarum* (Rustyback) (Rhedylen Gefngoch). Abundant on mortared walls of Blaencaron chapel yard, SN/708.611, A.O. Chater, 1996.
- 17/1/2. *Polystichum aculeatum* (Hard Shield-fern) (Gwrychdredynen Galed). Gorge of Aeron Fechan just above confluence with Afon Aeron, Blaenpennal, SN/629.636, A.O. Chater, 1996.
- 17/3/1. *Dryopteris oreades* (Mountain Male-fern) (Marchredynen Fach y Mynydd). Cliff on S bank of Nant Rhuddnant 2.8km upstream of confluence with Afon Merin, SN/797.783, P.A. Smith & A.O. Chater, 1996.
- 17/3/8 × 9. *Dryopteris dilatata* × *carthusiana* (*D.* × *deweveri*) (a hybrid Male-fern). With both parents in fen by Afon Mwyr, 3km ESE of Strata Florida, SN/776.648, J.P. Woodman & A.O. Chater, 1996, conf. A.C. Jermy; with *D. dilatata* among brambles on wooded slope between road and stream, 1km W of Glasbwl, Llynant, SN/729.975, A.C. Jermy, A.C. Pigott & A.O. Chater, 1996.
- 17/3/8. *Dryopteris carthusiana* (Narrow Buckler-fern) (Marchredynen Gul). Damp ride in *Picea sitchensis* plantation 200m ENE of middle lake, Llynnoedd Ieuan, SN/802.819, A.C. Jermy & A.O. Chater, 1996.
- +19/1/1. *Azolla filiculoides* (Water Fern) (Rhedylen y Dŵr). Abundant in ditch in pasture S of A44(T) between Blaungeuffordd and Penllwyn, Capel Bangor, SN/648.802, A.O. Chater, 1996.
- *20/1/nor. *Abies nordmanniana* (Caucasian Fir) (Flynidwydden Gaucasaid). About 15 self-sown trees 2-4m tall in estate woodland, Llanerchaeron, SN/479.601, S.P. Chambers, 1996.
- \$27/1/1. *Ceratophyllum demersum* (Rigid Hornwort) (Cyrddail). Abundant in pond in pasture 200m N of Clogfryn, Aberaeron, SN/449.624, A.O. Chater, 1996. Presumably introduced as pond is recent.
- \$28/12/1. *Clematis vitalba* (Traveller's-joy) (Barf yr Hen Ŵr). Several big plants in oak and ash woodland on disused railway embankment 800m NW of Ty'n-y-graig, SN/687.699, A.O. Chater & H. Malaws, 1996.
- 28/13/7. *Ranunculus parviflorus* (Small-flowered Buttercup) (Crafanc y Frân Manfodeuog). Three plants at edge of road in caravan site, Penyergyd, Gwbert, SN/161.485, A.O. Chater, 1996; 8 plants in pasture by lane 100m N of Lochlyn Farm, Llangranog, SN/314.546, A.O. Chater & A.D. Hale, 1996; scattered in overgrazed pasture 300m N of Dyffryn-saith, Tresaith, SN/282.515, J.P. Woodman & A.O. Chater, 1996.
- 28/13/24. *Ranunculus peltatus* (Pond Water-crowfoot) (Crafanc y Llyn). Abundant in field pond 100m N of Cwrt-y-clai, Llechryd, SN/233.449, A.O. Chater & L. Gander, 1996.

- 30/1/5b. *Papaver dubium* subsp. *lecoqii* (Yellow-juiced Poppy) (Pabi Sudd Melyn). 8 plants on sandy waste ground by stream at N end of Clarach beach, SN/587.839, A.O.Chater, 1996. Only the third post-war record.
- +130/6/1. *Eschscholzia californica* (Californian Poppy) (Pabi California). Established for several years and abundant on sandy slope above shore, Penyregyd, Gwbert, SN/164.485, A.O.Chater, 1996. Second record.
- 38/1/1. *Myrica gale* (Bog-myrtle) (Helygen Fair). Dense colony 4 × 3m, 400m SSW of Ynysberfedd, W side of West Bog, Cors Caron NNR, SN/682.642, J. Davies, 1996. The absence of *Myrica* has in the past been considered one of the surprising features of Cors Caron, especially as it occurs in another small bog a few km to the north.
- 44/1/1. *Amaranthus retroflexus* (Common Amaranth) (Chwyn Moch). One plant in disturbed corner of pasture 600m NNW of Old Castle Farm, Cardigan, SN/169.468, C.Evans & J.Thomas, 1996, det. A.O.Chater. Only the third record since 1928.
- +145/2/1. *Claytonia perfoliata* (Springbeauty) (Trydwl). Among gorse on S facing scree W of Cliff Railway, Constitution Hill, Aberystwyth, SN/583.826, A.D.Hale, 1996. Second record.
- 46/7/10. *Cerastium diffusum* (Sea Mouse-ear) (Clust Llygoden Arfor). Dry rocks by Afon Teifi just below Cenarth Bridge, SN/269.416, A.O.Chater, 1996; rocky knolls in pasture N of Afon Teifi, 600m W of Pontalltycafan, SN/381.393, A.O.Chater, 1996; S facing pasture slope above Afon Teifi 600m W of Pont Tyweli, SN/408.403, A.O.Chater, 1996. Rarely recorded inland in the county; the last site is 17km from the sea.
- 46/9/1. *Moenchia erecta* (Upright Chickweed) (Cornwlyddyn Syth). Rocky slope, Foel y Mwnt, 150m NW of church, SN/194.520, J.P.Woodman & A.O.Chater, 1996; SE corner of pasture below lane 300m SW of Lochryn Farm, Llangranog, SN/312.542, A.O.Chater & A.D.Hale, 1996; top of coastal slope 200m WSW of Clogfryn, Aberaeron, SN/446.620, A.O.Chater, 1996; cliff-top pathside 400m SSW of Borth war memorial, SN/599.881, A.O.Chater & P.Amis, 1996; rocky footpath 100m NW of Borth war memorial, SN/602.886, A.O.Chater, 1996; abundant on closely horse-grazed turf, Hen Afon Leri SSSI, Ynys-las, SN/608.918, A.O.Chater, 1996. Previously known from only two tetrads in the county, in 1996 it was found in nine more, presumably benefitting from the summer drought in 1995.
- 46/11/2a. *Scleranthus annuus* subsp. *annuus* (Annual Knawel) (Dinodd Blynnyddol). Rocky corner of pasture 230m NW of Coed-y-bryn, Cwm Cwt, SN/280.431, A.O.Chater, 1996.
- 47/4/2. *Polygonum oxyspermum* subsp. *raii* (Ray's Knotgrass) (Cancwlwm Ray). Two plants at top of sandy beach, Traeth y Mwnt, SN/194.519, A.O.Chater, 1996.
- 47/8/15. *Rumex sanguineus* var. *sanguineus* (Blood-veined Dock) (Tafolen Gwythien-goch). One plant with abundant var. *viridis* on frequently flooded ground in wood by Afon Mwldan 250m NNW of Llwyn-llwyd, Penparc, SN/200.490, A.O.Chater, 1996. The first record for this spectacular plant, which in such a natural site as this is more likely to be a spontaneous mutation than an occurrence of the variety as a casual.
- 50/1/1. *Elatine hexandra* (Six-stamened Waterwort) (Gwybybyr Chwe Brigerog). Abundant at NE corner of Llyn Rhosgoch, SN/713.832, A.O.Chater & A.C.Jerny, 1996.
- 51/1/16. *Hypericum elodes* (Marsh St John's-wort) (Eurinllys y Gors). Marsh by Afon Ceri 700m ENE of Felin Wda, SN/329.473, M.Sutton, 1996.
- 53/1/7. *Malva neglecta* (Dwarf Mallow) (Hocys Bychan). Weed in flowerbed of "Saltwinds", W side of main street, Borth, SN/608.893, A.O.Chater, 1996.
- 57/1/7 + 4. *Viola lactea* × *riviniana* (Dwarf Mallow) (Hocys Bychan). Several plants in unimproved pasture 500m WSW of Cae'r-meirch, Pontrhyd-y-groes, SN/751.736, A.O.Chater, 1996. A surprising occurrence at 270m a.s.l. and 27km from the nearest site where *V. lactea* has been recorded.
- 57/1/9b. *Viola palustris* subsp. *juressi* (Marsh Violet) (Fioled y Gors). In marsh W of stream 400m NW of Bronwydd, Llangynllo, SN/350.434, A.O.Chater, 1996. Third record.
- 62/1/1/1. *Barbarea vulgaris* (Winter-cress) (Berwr y Gaeaf). Two plants on shingle by Afon Aeron, Tre-fron Bridge, Abermeurig, SN/573.576, A.O.Chater, 1996.
- 62/42/1b. *Raphanus raphanistrum* subsp. *maritimus* (Sea Radish) (Rhuddygl Glan y Môr). One huge plant 180cm tall and 390cm in diameter, in rough grass at W edge of Ystwyth estuary opposite

- Isolation Flats, Aberystwyth, SN/579.806, S.P.Chambers & P.Amis. Second record; the plant was first seen as a rosette in January by S.P.Chambers.
- +169/3/1. *Cyclamen hederifolium* (Cyclamen) (Bara'r Hwch). 2 well established clumps by woodland path just W of Tynrhelyg, Llanfarian, SN/595.767, S.P.Chambers, 1996. Third record.
- 69/6/3. *Anagallis minima* (Chaffweed) (Corfrilys). Poached marshy pasture 250m N of Pant-gwyn, Tresaith, SN/276.508, M.Sutton, 1996.
- 74/5/19. *Saxifraga tridactylites* (Rue-leaved Saxifrage) (Tormaen Tribys). Disturbed S facing pasture slope above Troed-y-rhiw, Cwm Cou, SN/283.426, M.Sutton, 1996. The only inland site in the county apart from railway tracks.
- +174/7/1. *Tolmiea menziesii* (Pick-a-back-plant) (Crudlys). Well naturalised in *Alnus* and *Salix* carr by Afon Cerdin 100m NNE of Blaencerdin, Capel Cynon, SN/386.490, A.O.Chater, 1996.
- *75/8/92. *Rubus boudiccae* (a bramble). Hedgebank on sandy soil 200m N of Warren Farm, Penparc, SN/201.477, D.E.Allen & A.O.Chater, 1996, conf. A.Newton. First record for Wales.
- *175/8/134. *Rubus armeniacus* 'Himalayan Giant'. Slope above road 200m S of Cardigan Bridge, SN/178.456, D.E.Allen & A.O.Chater, 1996.
- *75/8/197. *Rubus norvicensis* (a bramble). Colony inside wood and at NE end of wood by road bridge, 300m SSW of Capel Dewi church, SN/451.421, D.E.Allen & A.O.Chater, 1996, conf. A. Newton. The owner of an adjacent house and garden moved here from Essex in 1985, so this might be the origin of this first record for Wales of this species of East Anglia and central southern England, but the species is also frequent in another wood 1.7km SSW of here.
- 75/21/5. *Rosa tomentosa* (Harsh Downy-rose) (Rhosyn Lledwlanog). Two bushes in roadside hedge just NE of Cilrhylg, 1km SW of Llangeitho, SN/609.592, A.O.Chater, 1996.
- 75/21/19. *Rosa micrantha* (Small-flowered Sweet-briar) (Rhoslwyn Pêr). Several bushes in disused quarries, Parc Natur Penglais, Aberystwyth, SN/588.821, A.O.Chater, 1996.
- 75/22/11. *Prunus padus* (Bird Cherry) (Ceiriosen yr Adar). Several big old trees, some looking either self-sown or wild, on disused railway track and on wooded slope above Isdwr, 700m WNW of Pontallt-y-cafan, SN/380.395, A.O.Chater, 1996; large tree from coppiced stool, presumably planted, on laneside hedgebank 300m downstream of Pont Tyweli, SN/412.404, A.O.Chater, 1996. Now not known for certain as a wild tree anywhere in the county.
- *175/32/40. *Cotoneaster sternianus* (Stearn's Cotoneaster). Rocky scrub on S facing slope above road at W end of Cwm Rheidol Reservoir, SN/695.796, A.O.Chater, 1996.
- *175/33/1. *Pyracantha coccinea* (Firethorn) (Llosgddraenen). Several plants in rocky scrub on S facing slope above road at W end of Cwm Rheidol Reservoir, SN/695.796, A.O.Chater, 1996.
- *75/35/7 × 8. *Crataegus monogyna* × *laevigata* (C. × *media*) (a hybrid hawthorn). One bush in hedgebank 130m SW of Tanllan, Llanbadarn Odwyn, SN/633.609, A.O.Chater, 1996. Doubtless widespread, but not identified before.
- 75/35/8. *Crataegus laevigata* (Midland Hawthorn) (Draenen Ysbyddaden). One large bush in mixed woodland above Teifi estuary, Netpool Wood, Cardigan, SN/170.461, A.O.Chater, 1996. Status uncertain, as this wood contains both rare native species such as *Sorbus torminalis* and introductions such as *Tilia* × *vulgaris* and *Mahonia aquifolium*.
- 77/19/1. *Trifolium ornithopodioides* (Bird's-foot Clover) (Corfeillionen Wen). Abundant on footpath and adjacent slope, Foel y Mwnt, SN/194.520, J.P.Woodman & A.O.Chater, 1996; about 12 plants on bowling green, Plas Crug, Aberystwyth, SN/588.814, S.P.Chambers, 1996..
- 77/19/23. *Trifolium arvense* (Hare's-foot Clover) (Meillionen Gedenog). Short turf on clifftop, Llangrannog Head, SN/312.552, A.O.Chater, 1996.
- 84/1/3 × 8. *Epilobium ciliatum* × *E. obscurum* (a hybrid willowherb). Shaded verge of A 475, 700m E of Llandyfriog church, SN/340.409, C.D.Preston & A.O.Chater, 1996. Second record.
- +1102/1/8. *Oxalis articulata* (Pink-sorrel) (Suran Ruddgoch). Roadside hedgebank N of Afon Cledan, 150m E of A487, Llanon, SN/515.668, A.O.Chater, 1996. Dry verge of road by pavement, just E of Dinas Terrace, Aberystwyth, SN/585.809, S.P.Chambers, 1996. Second and third records.
- +1102/1/10. *Oxalis debilis* (Large-flowered Pink-sorrel) (Suran Oddfog). Several plants in rough grass on floor of old sandpit just N of A487(T), Banc y Warren, Penparc, SN/203.477, A.O.Chater, 1996. Second record.

- *102/1/14. *Oxalis incarnata* (Pale Pink-sorrel) (Suran Welw). Roadside 100m W of Llangranog church, SN/315.540, A.O.Chater, 1996.
- \$103/1/7. *Geranium pratense* (Meadow Crane's-bill) (Pig yr Aran y Weirglodd). Established on roadside verge 400m N of Pont Llanychaearn. SN/591.782, J.P.Woodman & A.O.Chater, 1996.
- 103/1/15. *Geranium pusillum* (Small-flowered Crane's-bill) (Pig yr Aran Mânflodeuog). Disturbed flowerbed, Art Dept. grounds, Buarth Mawr, Aberystwyth, SN/588.815, S.P.Chambers, 1996. Second record; the only previous record was from railway ballast 3km E of here in 1932 and 1933.
- 103/2/1. *Erodium maritimum* (Sea Stork's-bill) (Pig y Crëyr Arfor). About 80 plants on disused quarry floor just SSW of Camera Obscura, Constitution Hill, Aberystwyth, SN/584.827, A.O.Chater, 1996.
- 103/2/2. *Erodium moschatum* (Musk Stork's-bill) (Pig y Crëyr Mwsgaidd). Shaley track margin and in adjacent field, 700m ESE of Capel Tygwydd, SN/277.432, A.O.Chater, 1996. Second record.
- *107/3/1. *Astrantia major* (Astrantia) (Astrantia). Well established on shaley slope below Forestry road in conifer forest 2.3km SE of Eisteddfa Gurig, SN/811.820, A.O.Chater, 1996. With *Fuchsia magellanica* and *Cotoneaster horizontalis* and presumably deriving from throw-outs, although 2km from nearest garden.
- 107/3/2. *Carum verticillatum* (Whorled Caraway) (Carwas Troellog). Damp pasture 250m N of Pant-gwyn, Tresaith, SN/276.508, M.Sutton, 1996; wet fields 400m NW of school, Cwm Cou, SN/287.423, M.Sutton, 1996.
- 110/4/1. *Hyoscyamus niger* (Henbane) (Ffa'r Moch). Two large plants on site of disused chapel, Eend of North Parade, Aberystwyth, SN/586.818, A.O.Chater, 1996.
- 116/2/1. *Echium vulgare* (Viper's-bugloss) (Glas y Graean). One plant in steep field SW of High View, 1km N of Cennarth, SN/266.427, M.Sutton, 1996.
- +124/1/2. *Verbascum virgatum* (Twiggy Mullein) (Tewbannog). Disturbed scrub slope above church hall, Llanbadarn Fawr, SN/598.810, A.O.Chater & J.P.Woodman, 1996.
- 125/1/1. *Lathraea squamaria* (Toothwort) (Dantlys). Steep slope in ash and sycamore wood above Afon Aeron 2km SSE of Aberaeron, SN/467.611, R.Wistow, 1996. Only the third extant site in the county.
- 125/2/2. *Orobancha rapum-genistae* (Greater Broomrape) (Gorfanc Mwyaf). 3 spikes under gorse on slope 400m SE of Y Gaer, Cwm Cou, SN/291.427, M.Sutton, 1996. The eighth site in the county since 1980.
- 135/5/3a. *Carduus crispus* subsp. *multiflorus* (Wetted Thistle) (Ysgallen Grych). 6 plants at edge of reseeded pasture 400m SSW of Craig yr Adar, New Quay Head, SN/375.597, A.O.Chater, 1996.
- +135/12/1sat. *Cichorium intybus* subsp. *sativum* (Chicory) (Ysgelllog). Fields 400m SW of Ty-hen Farm, Penbryn, SN/287.516, A.O.Chater & J.P.Woodman, 1996; sown here in seed mixture for silage in 1991 and scattered plants have appeared each year since.
- *135/21/4gla. *Sonchus asper* subsp. *glaucescens* (Prickly Sow-thistle) (Llaethysgallen Arw). By footpath on coastal scrub slope, 1km SW of Llangranog, SN/301.534, A.O.Chater, 1996. Third record.
- 135/30/4. *Filago minima* (Small Cudweed) (Edafeddog Lleiaf). Abundant on shaley verge of Forestry road on NW side of Llyn Brienne, 900m NNE of dam, SN/795.494, A.O.Chater & D.Davies, 1996.
- +135/41/5. *Aster lanceolatus* (Narrow-leaved Michaelmas Daisy). Colony on N bank of Afon Aeron 50m below Pont Talsarn, SN/544.562, A.O.Chater, 1996, conf. P.D.Sell & P.F.Yeo.
- 135/41/6. *Aster tripolium* (Sea Aster) (Seren y Morfa). About six plants at top of sandy beach, Traeth y Mwnt, SN/194.519, A.O.Chater, 1996.
- 135/55/3. *Anthemis cotula* (Stinking Chamomile) (Camri'r Cwn). In oat crop 500m SE of Wernfelig, Temple Bar, SN/539.529, A.O.Chater, 1996. Also in potato crop nearby.
- 135/81/1. *Bidens cernua* (Nodding Bur-marigold) (Graban Ogwydd). Backwater of Afon Rheidol 4km E of Aberystwyth, SN/618.808, D.E.Green, 1996.
- +138/4/1. *Elodea canadensis* (Canadian Waterweed) (Alaw Canada). Small patch in Afon Aeron just below Pont Talsarn SN/544.562, A.O.Chater, 1996, the first record from this river, in which *E.nuttallii* occurs in several places; abundant in many places in Afon Teifi for 3km downstream

- from Lampeter, greatly increased since 1990, SN/577.475-552.462, A.O.Chater & J.P.Woodman, 1996.
- *\$142/1/19. *Potamogeton crispus* (Curled Pondweed) (Dyfrllys Crych). Abundant in pond in pasture 200m N of Clogfryn, Aberaeron, SN/449.624, A.O.Chater, 1996, conf. C.D.Preston. Pond is comparatively recently made so the plant is presumably introduced.
- +148/2/4. *Lemna minuta* (Least Duckweed) (Corlinad). Garden pond, Old Castle Farm, Cardigan, SN/165.463, A.O.Chater, 1996. Second record; known here for about 5 years, the plant having arrived by unknown means.
- 151/1/25. *Juncus inflexus* (Hard Rush) (Brwynen Galed). Damp pasture S of Glandulas, Betws Ifan, SN/313.474, M.Sutton, 1996.
- 152/3/4. *Eleocharis multicaulis* (Many-stalked Spike-rush) (Sbigfrwynen Gadeiriog). Flushed pasture by Afon Cerdin 200m NE of Blaencerdin-fawr, Capel Cynon, SN/387.491, A.O.Chater, 1996.
- 152/9/1. *Eleogiton fluitans* (Floating Club-rush) (Clwbfrwynen Nawf). Overgrown pond 250m W of Penrallteifed, Llechryd, SN/227.443, A.O.Chater & L.Gander, 1996.
- 152/16/1. *Carex paniculata* (Greater Tussock-sedge) (Hesgen Rafunog Fwyaf). Alder carr by Afon Cerdin 700m SE of Capel Cynon church, SN/388.488, A.O.Chater, 1996.
- 152/16/22. *Carex curta* (White Sedge) (Hesgen Benwen). Mire by Afon Ceri between Beddgeraint and Felin Wnda, SN/322.466, M.Sutton, 1996.
- 152/16/28. *Carex rostrata* (Bottle Sedge) (Hesgen Ylfinfain). Mire by Afon Ceri between Beddgeraint and Felin Wnda, SN/322.466, M.Sutton, 1996.
- 152/16/36. *Carex panicea* (Carnation Sedge) (Hesgen Benigen-ddail). Marshy pasture, Penralltycorde, 2km ENE of Tan-y-groes, SN/304.498, M.Sutton, 1996.
- 152/16/39. *Carex laevigata* (Smooth-stalked Sedge) (Hesgen Ylfinog Lefn). Clayey ground in felled woodland, Coed Newydd, Coedmor, SN/197.440, A.O.Chater, D.A. & A.Pearman, 1996.
- 152/16/47. *Carex pallescens* (Pale Sedge) (Hesgen Welwlas). Rough grassland by springs W of Aber-porth school, SN/256.513, M.Sutton, 1996.
- 152/16/73. *Carex pulicaris* (Flea Sedge) (Chwein-hesgen). Flushed pasture just NW of Cefn-ceirw, 2km SSW of Brynhoffnant, SN/323.499, M.Sutton, 1996.
- 153/24/1. *Glyceria maxima* (Reed Sweet-grass) (Perwellt). Dominant in pond 10m in diameter in fields 300m SSW of Coed-y-cwm, Cwm Cou, SN/275.428, A.O.Chater, 1996. Second record; as with the only other site, Falcondale Lake, it is difficult to tell whether the plant is native or introduced; the present pond is not near any dwelling and no other non-native species are present.
- 153/59/2a. *Hordeum murinum* subsp. *murinum* (Wall Barley) (Heiddwellt y Mur). Car park at NE corner of Aber-porth village, SN/261.515, A.O.Chater, 1996.
- *!158/6/1. *Kniphofia uvaria* (Red-hot-poker). One non-flowering plant among gorse on heathy ground on leadmine spoil heaps, Cwmsymlog, SN/698.837, A.O.Chater, 1996. Known here for at least 5 years, origin unknown.
- \$158/18/2. *Ornithogalum angustifolium* (Star-of-Bethlehem) (Seren Fethlehem). Many patches in alluvial meadow by Afon Teifi 300m N of Coedmor mansion, SN/190.441, A.O.Chater & J.P.Woodman, 1996.
- +!159/8/2. *Crocus tommasianus* (Early Crocus). Colony 3m long on roadside bank just NW of Figure Four crossroads, Llanfarian, SN/588.776, S.P.Chambers, 1996.
- +!159/13/1. *Crocus paniculata* (Aunt-Eliza). Several well established clumps on wooded slope below minor road 600m ENE of Cenarth Bridge, SN/275.417, A.O.Chater, 1996.
- 162/16/1c. *Gymnadenia conopsea* subsp. *borealis* (Fragrant Orchid) (Tegeirian Pêr). Heathy pasture, Cae'r-meirch, Pontthydy-y-groes, SN/75.73, A.O.Chater; heathy pasture, Cae Ffösyrolyn, Blaenpennal, SN/626.635, A.O.Chater, both 1996. Second and third records; known at both sites for many years, but the subsp. not previously distinguished.
- 162/20/3. *Orchis morio* (Green-winged Orchid) (Tegeirian y Waun). Bryngwenith chapel graveyard, SN/341.431, A.O.Chater; 11 spikes on lawn, Llanerchaeron mansion, SN/479.601, J.P.Savidge, both 1996.

MONTGOMERY, v.c. 47 (comm. Mrs M.Wainwright)

- *120A/SEQ/sem. *Sequoia sempervirens* (Coastal Redwood) (Cochwydden Arfor). A single seedling, about 3 yrs old, under the largest trees in the Redwood Grove, Leighton near Welshpool, SJ/24.03, A.Markwick, 1987. The first seedling to have occurred naturally here and still flourishing in 1997.
- +139/4/3. *Quercus ilex* (Evergreen Oak) (Derwen Fythwyrdd). One large tree in council car park, Newtown, SO/10.91, C.A.Small, 1980. Still there in 1997. Second record.
- !39/4/7. *Quercus rubra* (Red Oak) (Derwen Goch). Several fully-grown trees in forestry plantation, Afon Dulas Valley, SN/79.89, M.Case, 1985.
- *46/20/9+10. *Silene* - *hampeana* (*S. latifolia* - *S. dioica*) [Pink Campion]. 1 plant with *S. latifolia*, in waste ground on old lead-mine site, Fan Pool, SN/94.87, W.A.Thompson, 1986; +7 plants on and beside a woodland track, Berriew, SJ/17.00, E.Roberts, 1988. First and second records.
- !77/14/1c. *Vicia sativa* subsp. *sativa* (Common Vetch) (Ffugbysen Faethol). Hedgebank in Pen-y-foel Lane, Llanymynech, SJ/25.21, H.Webster, 1989. Conf. P.M.Benoit.
- +107/22/1. *Silene silaus* (Pepper-saxifrage) (Ffenigl yr Hwch). Several plants in overgrown, unimproved pasture, with *Filipendula* mire, Churchstoke area, SO/2.9, S. Smith, 1996. Third record
- 107/34/2. *Carum verticillatum* (Whorled Caraway) (Carwas Troellog). Damp streamside in grassland, Tylweli, SN/93.79, A.J.Morton, 1995. Re-discovery of old V.J.Macnair record; area was the site of a bog lost to pasture 'improvement'.
- !115/1/1. *Phacelia tanacetifolia* (Phacelia). Woodland Drive, Llawryglyn, SN/91.91, H.Formaggia, 1996. Has appeared in two successive years, origin possibly birdseed.
- 124/16/24a. *Veronica hederifolia* subsp. *hederifolia* (Ivy-leaved Speedwell) (Rhwyddlwyn Eiddewddail). Field and roadside, N of Llanidloes, SN/95.85, M.Oliver, 1988.
- !135/32/1. *Anaphalis margaritacea* (Pearly Everlasting) (Edafeddod Tlysog). 2-3 good clumps beside forestry track, Cemmaes Road, SH/82.04, A.Morton, 1996.
- 145/1/1. *Zannichellia palustris* (Horned Pondweed) (Cornwlyddyn). Montgomery Canal, between Pool Quay and Crowther Hall, SJ/23.08, C.Paskell, 1978; Montgomery Canal between Buttington and Welshpool, SJ/23.08, J.Davidge, 1985.
- +153/51/3. *Bromopsis erecta* (Upright Brome) (Pawrwellt Unionsyth). Limestone grassland, Llanymynech Hill, SJ/26.21, H.Webster, 1991.

CAERNARFON, v.c. 49 (comm. G.Battershall)

- +5/1/1. *Ophioglossum vulgatum* (Adder's-tongue) (Tafod y Neidr). Amongst bracken in field below Pink Farm, Great Orme, SH/77.83, W.McCarthy, 1996.
- +17/3/8. *Dryopteris carthusiana* (Narrow Buckler-fern) (Marchredynen Gul). Marshland, Cors y Lllyn near Llanllyfni, SH/48.50, G.Battershall, G.Williams & W.McCarthy; +marsh, Pen-y-Gwryd near Capel Curig, SH/66.55, G.Battershall, R.Lewis & W.McCarthy 1996.
- +528/12/1. *Clematis vitalba* (Traveller's-joy) (Barf yr Hen Ŵr). Naturalised and clambering over scrub at side of foot path between Pont Dolgarrog and Pipeline Bridge, W of Dolgarrog, SH/77.66, R.Lewis, 1996.
- +28/13/11. *Ranunculus sceleratus* (Celery-leaved Buttercup) (Crafauc yr Eryr). Bed of drying-out reservoir, near Pink Farm, Great Orme, SH/77.83, W.McCarthy, 1996.
- +28/13/19. *Ranunculus omiophyllus* (Round-leaved Crowfoot) (Egylt y Rhosdir). Drainage channel, marshy estuarine grassland E of Talybont, SH/77.68, R.Lewis, 1996.
- +28/17/3. *Thalictrum flavum* (Common Meadow-rue) (Arianllys). Woodland at side of minor road leading from B5106 to Bwlch-y-Laiam, W of Llanrwst, SH/78.60, R.Lewis, 1996.
- +31/3/1. *Pseudofumaria lutea* (Yellow Corydalis) (Mwg y Ddaear Melyn). On stony ground below footpath, at base of retaining wall, side of Afon Crafnant, Trefriw, SH/78.63, R.Lewis, 1996.
- +31/5/3. *Fumaria bastardii* (Tall Ramping-fumitory) (Mwg y Ddaear Grymus). Waste ground, Aberdesach, SH/42.51, G. & I.Battershall, 1996.

- +135/2/1. *Ficus carica* (Fig) (Ffigysbren). Among brambles, Little Orme, Llandudno, SH/81.82, W.McCarthy, 1996.
- +142/8/2. *Carpobrotus edulis* (Hottentot-fig) (Ffigysen Felen). Eroding sea cliffs below gardens, Great Orme, SH/76.82, W.McCarthy, 1996.
- +43/3/10. *Attriplex portulacoides* (Sea-purslane) (Helys Can). Sea cliff below Marine Drive, Great Orme, SH/76.82, W.McCarthy, 1996.
- +46/22/1. *Saponaria officinalis* (Soapwort) (Sebonllys). Derelict farmstead. Onen-ebryd, about 1.2km SW of Llanbedr-y-cennin and about 1.2km WSW of Talybont, SH/75.68, R.Lewis, 1996.
- +51/1/6×7. *Hypericum × desetangsii* (*H. perforatum* × *H. maculatum*) (Des Etangs' St John's-wort). On wet ground at rear of Aluminium Works, Dolgarrog, SH/77.67; +on waste ground between the old and new routes of the B5279 road between Tyn-y-Groes and Talycafn, SH/78.71, both R.Lewis, 1996.
- +51/1/14. *Hypericum hirsutum* (Hairy St John's-wort) (Eurintlys Blewog). Among gravel in paths, Happy Valley, Great Orme, SH/78.83, W.McCarthy, 1996.
- 55/1/3. *Drosera intermedia* (Oblong-leaved Sundew) (Gwlithlys Hird-dail). In peaty rills, Cors y Gwaed, Nantlle Ridge, SH/50.45, M.Yeo, 1986.
- +161/1/1. *Populus alba* (White Poplar) (Poplysen Wen). On edge of playing field at side of track between Trefriw and Gower Bridge, Llanrwst, SH/78.62, R.Lewis, 1996.
- +161/1/1×2. *Populus × canescens* (*P. alba* × *P. tremula*) (Grey Poplar) (Poplysen Lwyd). In rough grassland near the derelict farmstead Pennant above the Afon Dilyn, about 1km W of Talybont, SH/75.68, R.Lewis, 1996.
- +161/1/3. *Populus nigra* 'Italica' (Lombardy Poplar) (Poplysen Lombardy). 5 trees at rear of school, Dolgarrog, SH/77.68, R.Lewis, 1996.
- *162/10/1on. *Matthiola longipetala* (Night-scented Stock). Several plants on waste ground, Port Dinorwic, SH/52.67, G.& I.Battershall, 1996.
- +62/12/4. *Rorippa palustris* (Marsh Yellow-cress) (Berwr Melyn y Gors). Shore of Coedty Reservoir above Dolgarrog, SH/75.66, R.Lewis, 1996. Second record.
- +162/16/1. *Aubrieta deltoidea* (Aubretia) (Obrisia). 1 plant on stonework of footbridge at rear of Woollen Mill, Trefriw, SH/77.63, R.Lewis, 1996.
- +62/35/2. *Sinapis alba* (White Mustard) (Cedw Gwyn). Roadside, Tu-hwnt-i'r Bont, Llanrwst, SH/79.61, R.Lewis, 1996.
- +164/2/1. *Rhododendron ponticum* (Rhododendron). Edge of woodland above B5106 road at Gwydir Castle, Llanrwst, SH/79.60, R.Lewis, 1996.
- *171/DEU/sca. *Deutzia scabra* (Deutzia). Edge of woodland W side of B5106, Pont Dolgarrog, SH/77.66, R.Lewis, 1996. First Welsh record; first noticed by W. McCarthy.
- 73/5/5b. *Sedum telephium* subsp. *fabaria* (Orpine) (Berwr Taliesin). On grass verge side of minor road between Llanbedr-y-cennin and Pant Ddol, SH/76.69, R.Lewis, 1996.
- +75/9/14×15. *Potentilla × mixta* (*P. erecta* × *P. reptans* & *P. anglica* × *P. reptans*) (Hybrid Cinquefoil). Eroding sea cliffs, Great Orme, SH/75.83, W.McCarthy, 1996.
- +175/19/15. *Alchemilla mollis* (a lady's-mantle). Grassy bank W side of B5106, between Lodge Hotel and Bedal Inn, Talybont, SH/76.69, R.Lewis; +grassland near Elephant's Cove, Great Orme, SH/77.83, W.McCarthy, both 1996. Second records.
- *75/21/12×20. *Rosa × belnensis* (*R. canina* × *R. agrestis*). Wood, near Keeper's Cottage, Penrhynside, Llandudno, SH/80.81, W.McCarthy, 1996. First Welsh record.
- +75/21/19. *Rosa micrantha* (Small-flowered Sweet-briar) (Rhoslwyn Pêr). Wood near Keeper's Cottage, Penrhynside, Llandudno, SH/80.81, W.McCarthy, 1996.
- +75/21/20. *Rosa agrestis* (Small-leaved Sweet-briar) (Miaren Gulddail). Limestone hillside, Great Orme, SH/76.83, W.McCarthy, 1996. Second record this century.
- +75/22/5b. *Prunus domestica* subsp. *insititia* (Bullace) (Eirinen Fulas). In boundary hedge, public car park near Pant Fawr, Llanrwst, SH/79.61, R.Lewis, 1996.
- +175/22/13. *Prunus lusitanica* (Portugal Laurel) (Llawr-sirianen Portiugal). Edge of woodland above B5106 at Gwydir Castle, Llanrwst, SH/79.60, R.Lewis, 1996. Second record.
- +175/22/14. *Prunus laurocerasus* (Cherry Laurel) (Llawr-sirianen). Edge of woodland above B5106 at Gwydir Castle, Llanrwst, SH/79.60, R.Lewis, 1996.

- *\$77/15/12. *Lathyrus nissolia* (Grass Vetchling) (Ythysen Goch). Grassy area at side of track leading to Llyn Parc, about 1.75km SW Llanrwst, SH/78.60, W.McCarthy, 1996. Probably introduced.
- +91/2/13. *Euphorbia paralias* (Sea Spurge) (Llaethlys y Môr). Sand dunes, West Shore, Llandudno, SH/77.81, W.McCarthy, 1996.
- +!109/1/1. *Vinca major* (Greater Periwinkle) (Perfagl Mwyaf). Hedgebank, Llanbedr-y-cennin, SH/76.69, R.Lewis, 1996.
- +110/8/1a. *Solanum nigrum* subsp. *nigrum* (Black Nightshade) (Codwarth Du). Weed on building site for a new property, Llanbedr-y-cennin, SH/76.69, R.Lewis, 1996.
- *!110/8/3. *Solanum physalifolium* (Green Nightshade). Flower beds, town centre, Llandudno, SH/77.82, W.McCarthy, 1996.
- +!111/3/4. *Calystegia sylvatica* (Large Bindweed) (Taglys Estron). Waste ground at Dolgarrog, SH/77.66, R.Lewis, 1996.
- +!118/23/3x4. *Mentha* × *villosa* (*M. spicata* × *M. suaveolens*) (Apple Mint) (Mintys Lled-grynddail). Side of footpath leading from near Pont Dolgarrog to Dolgarrog railway halt, SH/77.66, R.Lewis, 1996.
- +!118/24/1. *Rosmarinus officinalis* (Rosemary) (Rhos Mari). Sand dunes, West shore, Llandudno, SH/77.81, W.McCarthy, 1996. Second record.
- +!123/4/2. *Ligustrum ovalifolium* (Garden Privet) (Pryfet yr Ardd). In hedgerow on W side of A470 near Dolgarrog railway halt, SH/78.67, R.Lewis, 1996.
- +124/4/2 × 3. *Mimulus* × *robertsii* (*M. guttatus* × *M. luteus*) (Hybrid Monkeyflower). Marshy ground in rough grassland near derelict farmstead 'Pennant' above Afon Dulyn about 1km W of Talybont, SH/75.68, R.Lewis, 1996.
- *!129/1/10. *Campanula poscharskyana* (Trailing Bellflower) (Clychlys Ymlusgol). Boulders on bank of R. Roe, Rowen, Conwy, SH/76.70; +wall base, Llandudno, SH/78.82, both W.McCarthy, 1996. First and second records.
- +129/1/12. *Campanula trachelium* (Nettle-leaved Bellflower) (Clychlys Danadl). Path edge, Great Orme, SH/76.82, W.McCarthy, 1996.
- +135/26/5a. *Crepis vesicaria* subsp. *taraxacifolia* (Beaked Hawk's-beard) (Gwalchlys Gylfinhir). Waste ground at rear of Aluminium Works, Dolgarrog, SH/77.67, R.Lewis, 1996.
- !135/28/138. *Hieracium grandidens* (a hawkweed). Woodland, Great Orme, Llandudno, SH/77.82, G.Battershall, 1992. Det. D.McCosh.
- !135/28/139. *Hieracium cardiophyllum* (a hawkweed). Walltop, Felinhele NE of Caernarfon, SH/53.68, V.Jones, 1995. Det. D.McCosh.
- !135/28/147. *Hieracium caledonicum* (a hawkweed). Limestone ledge, Great Orme, Llandudno, SH/77.83, G.Battershall, 1992. Det. D.McCosh.
- +135/60/1. *Tripleurospermum maritimum* (Sea Mayweed) (Ffenigl Arfor). Estuarine marshy grassland, S of Caerhun Church, near Tyn-y-Groes, SH/77.69, R.Lewis, 1996.
- +!135/62/13. *Senecio squalidus* (Oxford Ragwort) (Creulys Rhydychen). On low walls around Forestry Commission Visitor Centre at Gwydir Uchaf above Gwydir Castle, Llanrwst, SH/79.60, R.Lewis, 1996.
- +152/16/8b. *Carex muricata* subsp. *lamprocarpa* (Small-fruited Prickly-sedge) (Hesgen Bigog Hwyr). Top of overgrown concrete structure at side of minor road between Trefriw and Llyn Crafnant, SH/76.62, R.Lewis, 1996.
- +152/16/31. *Carex pendula* (Pendulous Sedge) (Hesgen Bendrymus). Eroding sea cliffs, below gardens, Great Orme, SH/76.82, W.McCarthy, 1996.
- +152/16/32. *Carex sylvatica* (Wood-sedge) (Hesgen y Coed). Side of footpath in woodland between Tyn-yr-ardd Mine (disused) and Llyn Glangors, about 2.75km SW of Llanrwst, SH/77.60, R.Lewis, 1996.
- *152/16/59a. *Carex magellanica* subsp. *irrigua* (Tall Bog-sedge) (Hesgen Eurwerdd Lefn). Few plants in swamp with *Carex rostrata*, Mignient near Ysbyty Ifan, SH/77.44, G.Battershall, 1996.
- +153/12/2. *Festuca arundinacea* (Tall Fescue) (Peisgwellt Tal). Estuarine marshy grassland, S of Caerhun Church, near Tyn-y-Groes, SH/77.69, R.Lewis, 1996.

- +153/23/1. *Parapholis strigosa* (Hard-grass) (Corwelltyn y Morfa). Estuarine marshy grassland near Afon Conwy, about 0.5km S of Caerhun Church and Roman Fort near Tyn-y-Groes, SH/77.69, R.Lewis, 1996.
- 153/32/1c. *Deschampsia cespitosa* subsp. *alpina* (Alpine Hair-grass) (Brigwellt Alpaidd). Rock ledge, NW facing gully, Creigiau Gleision, SH/73.62, R.Smith, 1991.
- +153/39/2. *Agrostis gigantea* (Black Bent) (Maeswellt Mawr). On waste ground surrounding disused village hall, Dolgarrog, SH/76.67; +waste ground between old and new routes of B5279 between Tyn-y-Groes and Talycafn, SH/78.71, both R.Lewis, 1996. Specimens from both sites possessed ligules as illustrated in Hubbard (1984) Grasses (p.300).
- +153/47/6. *Alopecurus myosuroides* (Black-grass) (Cynffonwellt Din). Base of wall, Town Centre, Llandudno, SH/78.82, W.McCarthy, 1996.
- +153/50/4*5. *Bromus* × *pseudohominei* (*B. hordeaceus* × *B. lepidus*) (Lesser Soft-brome) (Pawrwellt Minffordd). Estuarine marshy grassland, S of Caerhun Church, near Tyn-y-Groes, SH/77.69, R.Lewis, 1996.
- +158/35/1. *Ruscus aculeatus* (Butcher's-broom) (Celynnen Fair). 1 large clump near disused railway building at side of footpath along Afon Conwy, S of Pont Fawr, Llanrwst, SH/79.61, R.Lewis, 1996.

DENBIGH, v.c. 50 (comm. Mrs J.A.Green)

- +1/3/1. *Lycopodium clavatum* (Stag's-horn Clubmoss) (Cnwpfwsogl Corn Carw). Moorland, Migneint, SH/77.43, National Trust records, 1980.
- +1/4/1. *Diphysastrum alpinum* (Alpine-clubmoss) (Cnwpfwsogl Alpaidd). Road verge bank, Cyffylliog, SJ/032.554, I.Lloyd, 1996.
- +4/1/4*5. *Equisetum* × *litorale* (*E. fluviatile* × *E. arvense*) (Shore Horsetail). Marshy grassland, Melin y Wig, SJ/03.49, S.P.Chambers; +wet ditch, Maeshafn, SJ/20.60, BSBI group, det. V.Gordon, both 1996.
- +4/1/7. *Equisetum sylvaticum* (Wood Horsetail) (Marchrawn y Coed). Marshy field, Nantglyn, SJ/00.61, W.McCarthy, 1996.
- +4/1/9. *Equisetum telmateia* (Great Horsetail) (Marchrawn Mawr). E riverbank, Llanrhaiadr-ym-Mochnant, SJ/12.28, J.A.Green, 1996.
- +5/1/1. *Ophioglossum vulgatum* (Adder's-tongue) (Tafod y Neidr). Unimproved grassland, Llanellidan, SJ/096.494, S.P.Chambers, 1996.
- +5/2/1. *Botrychium lunaria* (Moonwort) (Lloerlys). Unimproved pasture, Llanellidan, SJ/09.49, S.P.Chambers, 1996.
- +11/1/2. *Polypodium interjectum* (Intermediate Polypody) (Llawredynen Rymus). Wall in wood, Cadole, SJ/20.62, J.A.Green, 1996.
- +15/2/5a. *Asplenium trichomanes* subsp. *trichomanes* (Maidenhair Spleenwort) (Dnuegredynen Gwallt y Forwyn). Roadside wall, Capel Garmon, SH/81.57, J.A.Green, 1996. Second record.
- *120/7/6. *Pinus strobus* (Weymouth Pine) (Pinwydden Wen). Probably planted near farm, Nantglyn, SJ/00.61, P.Williams, 1996.
- +28/12/1. *Clematis vitalba* (Traveller's-joy) (Barf yr Hen Ŵr). River bank, Llanrhaiadr-ym-Mochnant, SJ/12.25, J.A.Green, 1996.
- +28/13/10. *Ranunculus auricomus* (Goldilocks Buttercup) (Peneuraidd). Woodland, Colwyn Bay, SH/83.80, W.McCarthy; +woodland verge, Bryneglwys, SJ/12.47, S.P.Chambers, both 1996.
- +28/13/25a. *Ranunculus penicillatus* subsp. *penicillatus* (Stream Water-crowfoot) (Crafanc y Nant). River Conwy, Llanrwst, SH/79.62, J.A.Green, 1996. Second record.
- +28/16/1. *Aquilegia vulgaris* (Columbine) (Blodau'r Sipsi). Bank of R. Conwy, Llanrwst, SH/79.62, J.A.Green, 1996.
- +29/1/1. *Berberis vulgaris* (Barberry) (Eurdrain). Roadside hedge, Llangwm, SH/98.44, A.O.Chater; +hedge, Glasfryn, SH/9.5, BSBI group, both 1996.
- +30/2/1. *Meconopsis cambrica* (Welsh Poppy) (Pabi Cymreig). Village street, Nantglyn, SJ/00.62, BSBI group; +edge of village street, Llanrhaiadr-ym-Mochnant, J.A.Green, both 1996.

- +131/3/1. *Pseudofumaria lutea* (Yellow Corydalis) (Mwg y Ddaear Melyn). Old stone wall, Llanrwst, SH/79.61, R.Lewis; +stones of bridge, Pand y, SJ/19.35, J.A.Green, both 1996.
- +36/1/2. *Urtica urens* (Small Nettle) (Danhadlen Leiaf). Manure heap, Llangwm, SH/97.43, A.O.Chater; +disturbed ground, Foryd, Rhyl, SH/99.80, J.A.Green, both 1996.
- +137/1/1. *Juglans regia* (Walnut) (Coeden Cnau Ffrengig). Planted on farm, Foryd, Rhyl, SH/99.80; +planted in field, Cadole, SJ/20.62, both J.A.Green, 1996.
- +43/1/6. *Chenopodium rubrum* (Red Goosefoot) (Troed yr Wydd Ruddog). Road verge, Nantglyn, SJ/00.61, BSBI group, 1996.
- +145/2/2. *Claytonia sibirica* (Pink Purslane) (Gwlyddyn Rhudd). Bank of R. Conwy, Llanrwst, SH/79.61, J.A.Green, 1996.
- +46/5/3. *Stellaria pallida* (Lesser Chickweed) (Gwlydd y Tywod). Hill top rocky outcrop, Bryn-rhyd-yr-arian, SH/96.68, J.A.Green, 1996.
- +46/9/1. *Moenchia erecta* (Upright Chickweed) (Cornwlyddyn Syth). Rocky hilly outcrop, Bryn-rhyd-yr-arian, SH/96.68, J.A.Green, 1996.
- +46/1/7/2. *Spergularia media* (Greater Sea-spurrey) (Troellys Mawr). Grass near sea, Foryd, Rhyl, SH/99.80, J.A.Green, 1996.
- +46/1/7/4. *Spergularia rubra* (Sand Spurrey) (Troellys Coch). Grass by sea, Foryd, Rhyl, SH/99.80, J.A.Green, 1996.
- *147/1/2. *Persicaria campanulata* (Lesser Knotweed) (Clymlys Lleiaf). Wet wood near garden, Capel Garmon, SH/81.57, BSBI group, 1996.
- +47/1/6. *Persicaria bistorta* (Common Bistort) (Llys y Neidr). Roadside, Bryn-rhyd-yr-arian, SH/96.68, J.A.Green, 1996.
- +47/1/1/6. *Persicaria minor* (Small Water-pepper) (Clymlog Bychan). Oxbow, Llanrwst, SH/79.62, R.Lewis, 1996. Second post 1930 record.
- *147/5/3. *Fallopia baldschuanica* (Russian-vine) (Taglys Tibet). River bank, Bryn Rhyd-yr-arian, SH/95.68, J.A.Green, 1996.
- +48/2/1. *Armeria maritima* (Thrift). Wall near sea, Foryd, Rhyl, SH/99.80, J.A.Green, 1996.
- +151/1/1. *Hypericum calycinum* (Rose-of-Sharon) (Rhosyn Saron). Patch by old wall, Llanellidan, SJ/10.49, S.P.Chambers, 1996.
- +51/1/1/0. *Hypericum humifusum* (Trailing St Johns-wort) (Eurinllys Mân Ymdaenol). Lane edge, Nantglyn, SJ/00.61, BSBI group, 1996.
- +53/1/1. *Malva moschata* (Musk Mallow) (Hocysen Fwsg). Field edge, Betws-y-Coed, SH/79.56, J.A.Green, 1996.
- +53/1/7. *Malva neglecta* (Dwarf Mallow) (Hocys Bychan). Churchyard, Nantglyn, SJ/00.62, BSBI group; +churchyard, Llanrhaidr-ym-Mochnant, SJ/12.26, J.A.Green, both 1996.
- +57/1/1/1. *Viola lutea* (Mountain Pansy) (Fioled y Mynydd). Bank of minor road, Llanellidan, SJ/09.49, S.P.Chambers, 1996.
- +561/1/3a. *Populus nigra* subsp. *betulifolia* (Black-9oplar) (Poplysen Ddu). In grassland on river bank at base of flood prevention embankment, W bsnk of R. Conway, about 0.65km NW of Tu-hwnt-i'r-bont, Pont Fawr, Llanrwst, SH/79.61, R.Lewis, 1993. All trees probably planted originally. Due to deviations between the course of the River Conway, and the boundary between v.c. 49 & 50, this locality was erroneously given as in v.c. 49 in Welsh Plant Records 1993 (Welsh Bulletin no. 58).
- +61/2/9-10. *Salix × sericans* (*S. viminalis* × *S. caprea*) (Broad-leaved Osier). Streamside, Ysbyty Ifan, SH/84.48, J.A.Green, 1996.
- *61/2/9-11. *Salix × smithiana* (*S. viminalis* × *S. cinerea*) (Silky-leaved Osier) (Helygen Sidanddail). Streamside by road, Llangwm, SH/98.44, A.O.Chater; +riverbank, Llanrwst, SH/79.61, J.A.Green, both 1996. First and second records.
- +61/2/11-12. *Salix × multinervis* (*S. cinerea* × *S. aurita*) (a hybrid willow). Streamside, Ysbyty Ifan, SH/84.49, J.A.Green; +streamside, Nantglyn, SJ/00.61, BSBI group, both 1996.
- +62/1/4/6. *Cardamine impatiens* (Narrow-leaved Bitter-cress) (Berwr Chwerw Culddail). Shady deciduous wood, Pand y, SJ/19.35, J.A.Green, 1996. Second post 1930 record.
- +162/8/1. *Hesperis matronalis* (Dame's-violet) (Disawr). Lane edge, Llanrhaidr-ym-Mochnant, SJ/12.28, J.A.Green; +roadside, Maeshafn, SJ/20.61, BSBI group, both 1996.

- +69/7/1. *Glaux maritima* (Sea-milkwort) (Glas yr Heli). Saltmarsh, Foryd, Rhyf, SH/99.80, J.A.Green, 1996.
- !73/3/1. *Sempervivum tectorum* (House-leek) (Llysiau Pen Tai). Roadside wall, Llangwm, SH/97.45, A.O.Chater; +chapel wall, Llangwm, SH/96.45, S.P.Chambers, both 1996. First and second records.
- +!73/5/10. *Sedum rupestre* (Reflexed Stonecrop) (Llwynau'r Fagwyr). Wall in village, Llanrhaiadr-ym-Mochnant, SJ/12.26; +garden wall, Cadole, SJ/20.62, both J.A.Green, 1996.
- +!74/8/1. *Tellima grandiflora* (Fringe-cups) (Clychau'r Clawdd). Roadside in wood, Trevor, SJ/25.42, J.A.Green, 1996.
- *75/8/270. *Rubus hylocharis* (a bramble). Roadside, Padog, SH/83.51, G.Battershall, 1996.
- +!75/19/15. *Alchemilla mollis* (a lady's-mantle). Edge of car park, Llanrhaiadr ym Mochnant, SJ/12.26, J.A.Green, 1996. Probable garden escape, second record.
- +75/21/13b. *Rosa caesia* subsp. *vosagiaca* (Glaucous Dog-rose) (Rhosyn Llwydwyrd). Hedge, Nantglyn, SJ/00.62, S.Burton, 1996.
- +75/21/16. *Rosa sherardii* (Sherard's Downy-rose) (Rhosyn Sherard). Roadside, Ysbyty Ifan, SH/85.49, J.A.Green, 1996.
- !75/21/17. *Rosa mollis* (Soft Downy-rose) (Rhosyn Deilen Feddal). Cliffs in Country Park, Mold, SJ/19.62, W.McCarthy; +limestone grassland, Maeshafn, SJ/20.61, BSBI group, det. A.Primavesi, both 1996. Second records.
- 75/21/20. *Rosa agrestis* (Small-leaved Sweet-briar) (Miaren Guldail). Limestone hillside, Colwyn Bay, SH/82.79, W.McCarthy, 1996. Det. A.Primavesi.
- +!75/22/14. *Prunus laurocerasus* (Cherry Laurel) (Llawr-sirïanen). Woodland, Talycafn, SH/78.68, R.Lewis, 1996.
- *!75/32/. *Cotoneaster marginatus* (Fringed Cotoneaster). Quarry floor, Llandulas, SH/91.77, W.McCarthy, 1994. Det. J.Fryer.
- +77/10/3. *Ornithopus perpusillus* (Bird's-foot) (Troed yr Aderyn). Rocky outcrop on hilltop, Bryn-rhyd-yr-arian, SH/96.68, J.A.Green, 1996.
- +91/2/10. *Euphorbia exigua* (Dwarf Spurge) (Fflangoed Fach yr Yd). Wasteground, Glan Conwy, SH/80.76, G.Battershall, 1996.
- +92/2/1. *Frangula alnus* (Alder Buckthorn) (Brewyddden). Wet wood, Wrexham, SJ/34.49, B.Formstone, 1996.
- *!102/1/3. *Oxalis corniculata* (Procumbent Yellow-sorrel) (Suran Felen Orweddol). Wall in village, Nantglyn, SJ/00.62, BSBI group, 1996.
- +!102/1/6. *Oxalis stricta* (Upright Yellow-sorrel) (Suran Felen Unionsyth). Old wall, Llanrwst, SH/79.62, R.Lewis, 1996.
- +!103/1/23. *Geranium phaeum* (Dusky Crane's-bill) (Gweddw Galarus). Wide grass verge, Llanelidan, SJ/11.48, S.P.Chambers, 1996.
- +103/1/14. *Geranium pyrenaicum* (Hedgerow Crane's-bill) (Pig yr Aran y Gwrych). Disturbed ground, Maerdy, SJ/01.44, S.P.Chambers, 1996.
- *106/1/2b. *Hedera helix* subsp. *hibernica* (Atlantic Ivy). Ruin, Llangwm, SH/98.44, A.O.Chater; +roadside wall, Llanrhaiadr ym Mochnant, SJ/12.26, J.A.Green; lane hedge, Pontfadog, SJ/23.37, BSBI group, all 1996. First and subsequent records.
- +!107/8/1. *Myrrhis odorata* (Sweet Cicely) (Cegiden Bêr). Riverbank, Bryn-rhyd-yr-arian, SH/95.67, J.A.Green, 1996.
- +!107/21/1. *Foeniculum vulgare* (Fennel) (Ffenigl). Lane edge, Pontfadog, SJ/23.38, G.Kay, 1996.
- +!107/41/2. *Heracleum mantegazzianum* (Giant Hogweed) (Efwr Enlawr). Roadside, Mochdre, SH/83.79, R.Lewis, 1996.
- +110/8/1. *Solanum nigrum* (Black Nightshade) (Codwarth Du). Sea shore shingle, Abergele, SH/93.78; +garden, Denbigh, SJ/05.66, both J.A.Green, 1996.
- +!111/3/3. *Calystegia pulchra* (Hairy Bindweed) (Taglys Blewog). Hedge, Nantglyn, SJ/00.62, BSBI group, 1996.
- *!114/1/1. *Polemonium caeruleum* (Jacob's-ladder) (Ysgol Jacob). Naturalised on rough banks, Carrog, SJ/10.46, S.P.Chambers, 1996.

- +116/2/1. *Echium vulgare* (Viper's-bugloss) (Glas y Graean). Disturbed ground, Foryd, Rhyl, SH/99.80, J.A.Green, 1996.
- *118/4/1c. *Lamiasium galeobdolon* subsp. *argentatum* (Variegated Yellow Archangel) (Marddanhadlen Felen Arianddail). Road verge, Bryneglwys, SJ/14.46, S.P.Chambers, 1996.
- +118/5/2. *Lamium maculatum* (Spotted Dead-nettle) (Marddanhadlen Fraith). Established on bank, Maerdy, SJ/01.44, S.P.Chambers; +hedgebank, Nantglyn, SJ/00.61, BSBI group, both 1996. Second records.
- +118/2/3x4. *Mentha* × *villosa* (*M. spicata* × *M. suaveolens*) (Apple Mint) (Mintys Lled-grynddail). Edge of waste ground, Pontfadog, SJ/23.38, J.A.Green, 1996.
- +118/2/3/1 - 2. *Mentha* × *verticillata* (*M. arvensis* × *M. aquatica*) (Whorled Mint) (Mintys Troellaidd). +Wet marshy area W of River Conway, about 0.65km NW of Tŷ-hwnt-i'r-bont, Pont Fawr, Llanrwst, SH/79.3.618, R.Lewis, 1993. Due to deviations between the course of the River Conway, and the boundary between v.c. 49 & 50, this locality was erroneously given as in v.c. 49 in Welsh Plant Records 1993 (Welsh Bulletin no. 58).
- +124/20/9. *Euphrasia confusa* [Dwarf Eyebright] (Effros Bach Gliniog). Grassland, Maeshafn, SJ/20.60, BSBI group, 1996.
- +124/19/3. *Melampyrum pratense* (Common Cow-wheat) (Gliniogai). Deciduous wood, Maeshafn, SJ/20.60, J.A.Green, 1996.
- +125/1/1. *Lathraea squamaria* (Toothwort) (Dantlys). On Black Poplar, Wrexham, SJ/34.49, B.Formstone, 1996.
- *125/1/2. *Lathraea clandestina* (Purple Toothwort) (Dantlys Porffor). Under rhododendron, Bodnant Garden, SH/79.82, A.Parry Jones, 1995.
- *125/2/10. *Orobanche minor* (Common Broomrape) (Gorfanc Lleiaf). Bare gravelly ground, Llay, SJ/33.54, K.Davies, 1996.
- *129/1/10. *Campanula poscharskyana* (Trailing Bellflower) (Clychlys Ymlusgol). Old wall at edge of waste ground, Llanrwst, SH/79.61, R.Lewis, 1996.
- +133/1/2. *Valerianaella carinata* (Keeled-fruited Cornsalad) (Llysiau'r Oen Rhychiog). Roadside, Cefn Brith, SH/93.50, G.Battershall, 1996; +grassland, Llandegla, SJ/19.53, D.Guest, 1995.
- +133/1/4. *Valerianaella dentata* (Narrow-fruited Cornsalad) (Gwylaeth yr Oen Deintiog). Grassland, Llandegla, S.Smith & D.Guest, 1995. First record since 1950.
- +134/3/1. *Knautia arvensis* (Field Scabious) (Clafrllys). Grass bank, Foryd, Rhyl, SH/99.80, J.A.Green, 1996.
- +135/5/1. *Carduus tenuiflorus* (Slender Thistle) (Ysgallen Flodfain). Grassland, Talycafn, SH/78.69, R.Lewis, 1996.
- +135/11/1. *Centaurea scabiosa* (Greater Knapweed) (Pengaled Mawr). Road verge, Denbigh, SJ/04.67, J.A.Green, 1996.
- +135/11/2. *Centaurea montana* (Perennial Cornflower) (Penlas Fythol). Roadside, Cerrigydruidion, SH/93.50, W.McCarthy, 1996.
- +135/17/1. *Picris echioides* (Bristly Oxtongue) (Tafod y Llew). Industrial estate, Wrexham, SJ/38.49, J.Smith, 1996.
- *135/22/4. *Lactuca tatarica* (Blue Lettuce) (Gwylaeth Las). Disused sand quarry, Marford, SJ/35.35, E.G.Williams, 1945. Det H.K.Airy Shaw. Record found in old letter, whereabouts of specimen unknown.
- +135/27/6b. *Pilosella aurantiaca* subsp. *carpathicola* (Fox-and-cubs) (Heboglys Euraid). Churchyard, Llanhaiadr-ym-Mochnant, SJ/12.26, J.A.Green, 1996.
- +135/48/3. *Tanacetum vulgare* (Tansy) (Tanclys). Waste ground, Foryd, Rhyl, SH/99.80, J.A.Green, 1996.
- +135/69/1. *Doronicum pardalianches* (Leopard's-bane) (Llysiau y Llewpard). Road verge, Bryneglwys, SJ/14.47, S.P.Chambers, 1996.
- +138/4/1. *Elodea canadensis* (Canadian Waterweed) (Alaw Canada). Oxbow, R. Conwy, Llanrwst, SH/79.62, J.A.Green; +garden pond, Colwyn Bay, SH/85.78, W.McCarthy, both 1996.
- +142/1/19. *Potamogeton crispus* (Curled Pondweed) (Dyfrllys Crych). Garden pond, Colwyn Bay, SH/85.78, W.McCarthy, 1996.

- +152/2/2. *Trichophorum cespitosum* (Deergrass) (Clwbfrwynen y Mawn). Vicarage Moss, Gresford, SJ/35.54, J.A.Green, 1996.
- +152/3/5. *Eleocharis quinqueflora* (Few-flowered Spike-rush) (Sbigfrwynen Goch). Neutral flush, Bryneglwys, SJ/12.48, S.P.Chambers, 1996.
- +152/5/1. *Scirpus sylvaticus* (Wood Club-rush) (Clwbfrwynen y Coed). Bank of drain, Holt, SJ/40.52, P.Day, 1995.
- +152/7/3. *Schoenoplectus tabernaemontani* (Grey Club-rush) (Llafrwynen Arfor). Shallow water in oxbow, R. Conwy, Llanrwst, SH/79.62, J.A.Green, 1996.
- +152/16/7. *Carex spicata* (Spiked Sedge) (Hesgen Dywysennog Borffor). Farmyard, Pontfadog, SJ/23.38, W.McCarthy, 1996.
- +152/16/18. *Carex dioica* (Dioecious Sedge) (Hesgen Ysgar). Neutral flush, Bryneglwys, SJ/12.48, S.P.Chambers, 1996.
- +152/16/27. *Carex pseudocyperus* (Cyperus Sedge) (Hesgen Hopysaidd). Oxbow, R. Conwy, Llanrwst, SH/79.62, J.A.Green, 1996.
- +152/16/39. *Carex laevigata* (Smooth-stalked Sedge) (Hesgen Ylfinog Lefn). Marshy field, Nantglyn, SJ/00.61, W.McCarthy, 1996.
- +152/16/47. *Carex pallescens* (Pale Sedge) (Hesgen Welwas). Marshy field, Melin y Wig, SJ/03.49, S.P.Chambers; +wet flush in wood, Nantglyn, SJ/00.61, W.McCarthy; +clearing in wood, Pandy, SJ/19.35, J.A.Green, all 1996.
- +153/14/2. *Vulpia bromoides* (Squirreltail Fescue) (Peisgwelld Anhiliog). Rocks on riverbank, Llanhaiadr-ym-Mochnant, SJ/12.28, J.A.Green, 1996.
- +153/50/3. *Bromus racemosus* (Smooth Brome) (Pawrwellt Llyfn). Old meadow, Trevelyn, SJ/40.57, D.Guest & S.Smith, 1992. Second record this century.
- +153/51/3. *Bromopsis erecta* (Upright Brome) (Pawrwellt Unionsyth). Grassland, Colwyn Bay, SH/83.80, W.McCarthy, 1996.
- +153/16/1. *Puccinellia maritima* (Common Saltmarsh-grass) (Gweinwellt Arfor). Saltmarsh, Foryd, Rhyl, SH/99.80, J.A.Green, 1996.
- +153/18/12. *Poa nemoralis* (Wood Meadow-grass) (Gweinwellt y Coed). Woodland, Maerdy, SJ/01.44, S.P.Chambers, 1996.
- +153/67/1 x 3. *Spartina* x *townsendii* (*S. maritima* x *S. alterniflora*) (Townsend's Cord-grass) (Cordwellt Townsend). Saltmarsh, Foryd, Rhyl, SH/99.80, J.A.Green, 1996.
- +154/1/2. *Sparganium emersum* (Unbranched Bur-reed) (Cleddlys Di-gainc). Oxbow, R. Conwy, Llanrwst, SH/79.62, J.A.Green, 1996.
- +162/13/1. *Platanthera chlorantha* (Greater Butterfly-orchid) (Tegeirian Llydanwyrdd). Marshy field, Melin y Wig, SJ/03.49, S.P.Chambers, 1996.
- +162/15/1. *Pseudorchis albida* (Small-white Orchid) (Tegeirian Broga Gwyn). Eryrys, SJ/20.57, M.Prosser, 1986. First record since 1950.
- +162/18/4. *Dactylorhiza praetermissa* (Southern Marsh-orchid) (Tegeirian y Gors). Meadow, fenced from grazing, Ysbyty Ifan, SH/84.49, J.A.Green, 1996.
- +162/18/5. *Dactylorhiza purpurella* (Northern Marsh-orchid) (Tegeirian y Fign). Meadow, fenced from grazing, Ysbyty Ifan, SH/84.49, J.A.Green, 1996.

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- 51/1/6 x 7. *Hypericum* x *desetangii* (*H. perforatum* x *H. maculatum*) (Des Etangs' St John's-wort). Tall herb grassland on old disused marl pit, Ddol Uchaf NR near Ysceifiog, SJ/14.71, G.Wynne, 1995. Conf. C.A.Stace.
- +162/24/1. *Camelina sativa* (Gold-of-pleasure) (Cydllyn). Garden weed, 'Y Fedwen Arian', Cilcain, SJ/18.65, G.Harvey, 1996. Det T.C.G.Rich. First post 1930 record for v.c.
- *162/34/4. *Brassica juncea* (Chinese Mustard). Garden weed, 'Gwyllfa', Licswm, SJ/17.71, G.Wynne, 1996. Det. T.C.G.Rich. Possibly from bird-seed.
- !62/Eru/ves. *Eruca vesicaria* subsp. *sativa* (Garden Rocket) (Roced yr Ardd). Disturbed ground, New Brighton, near Mold, SJ/25.64, J.Phillips, 1996. Second v.c. record.

- *64/7/11. *Cerastium pinnatum* (Dwarf Mouse-ear) (Clust Llygoden Bitw). Open calcareous grassland on rocky, W facing slopes, Prestatyn, SJ/067.810, D.Guest, 1996.
- *175/3/3a. *Spiraea douglasii* subsp. *douglasii* (Steeple-bush). Waste ground on site of former garden, Sealand, SJ/35.68, G.Wynne, 1996. Det. G.Hutchinson.
- +102/1/3. *Oxalis corniculata* (Procumbent Yellow-sorrel) (Suran Felen Orweddol). Abundant around disused glasshouses, Thornleigh Park, Sealand, SJ/36.66, G.Kay & BSBI group, 1996. Conf. M.F.Watson. First post 1930 record for v.c.
- +103/1/4. *Geranium rotundifolium* (Round-leaved Crane's-bill) (Pig yr Aran Cryddail). Spontaneous garden weed, Gronant, SJ/09.83, J.Phillips, 1996. Second v.c. record.
- +118/6/5. *Galeopsis bifida* (Bifid Hemp-nettle) (Penboeth Lleiaf). Roadside ditch on narrow upland road, above Plas Newydd, Cilcain, SJ/15.65, G.Wynne, 1996.
- 129/1/7. *Campanula glomerata* (Clustered Bellflower) (Clychlys Clwstwr). Semi-improved calcareous grassland, Pentre-cwm, SE side of Moel Hiraddug, Dyserth, SJ/06.78, CCW 'Phase 1' survey, 1994. Second v.c. record.
- *135/60/1 - 2. *Tripleurospermum maritimum* * *T. inodorum* (a Mayweed hybrid) (Fenigl Croesryw). Behind coastal dunes, Talacre Warren, SJ/11.84, BSBI group, 1996.
- *151/1/8. *Juncus ambiguus* (Frog Rush) (Brwynen y Broga). Damp depression in disturbed dunes, Point of Ayr, SW of lighthouse, SJ/11.85, A.O.Chater, 1996. Det T.Cope.
- +152/16/11. *Carex disticha* (Brown Sedge) (Hesgen Lygliw Benblydd). Fixed dunes, Point of Ayr, SJ/1.8, BSBI Field Meeting, 1996. Conf. A.O.Chater, 1997.
- 153/53/3. *Ceratophloea cathartica* (Rescue Brome) (Pawrwellt America). College grounds, Welsh College of Horticulture, Northop, SJ/23.69, J.Green & BSBI group, 1996. First post 1930 record for v.c.

ANGLESEY, v.c. 52 (comm. N.H.Brown)

- !62/11/4. *Barbarea verna* (American Winter-cress) (Berwr Tir). Belgium Promenade opposite Church Island, Menai Bridge, SH/55.71, P.Hope Jones, 1996.
- +74/5/15. *Saxifraga granulata* (Meadow Saxifrage) (Tormaen Gwyn y Gweunydd). N side of Mynydd Eilian nr Amlwch, SH/4.9, B.Ducker, 1996.