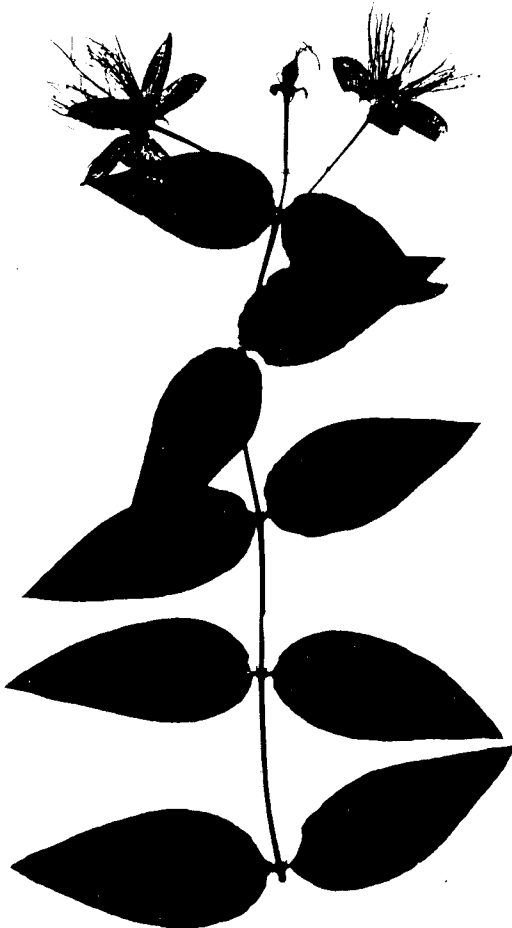


BOTANICAL SOCIETY OF THE BRITISH ISLES

WELSH BULLETIN

Editor : R. D. Pryce

No. 65, SUMMER 1999



Photocopy of specimen of *Hypericum hircinum* at NMW ($\times \frac{2}{3}$).
It is new to Denbs. (v.c. 50): see Welsh Plant Records

CONTENTS

Editorial	3
Annual General Meeting, 1998	4
Hon. Secretary's Report	4
Hon. Treasurer's Report	5
Elections	5
AGM & Exhibition Meeting and Field Meetings 1999	5
Committee for Wales, 1998-1999	6
Chairman's Opening Remarks - Welsh AGM, 1998	6
37th Welsh Annual General Meeting and 17th Exhibition Meeting, 1999	8
Welsh Field Meetings - 1999	9
<i>Cardamine corymbosa</i> Hook. f. - New Zealand Bitter-cress	12
Welsh Plant Records - 1997	14

All back issues of the BSBI Welsh Bulletin are still available on request (originals or photocopies). Please send cheque (made payable to BSBI Wales), @ £1 per issue, which includes p & p, to - Dr G. Hutchinson, Department of Biodiversity & Systematic Biology, National Museum & Gallery, Cathays Park, Cardiff CF1 3NP, specifying the issue number, or year (which would have to include the season or month). Large runs - price negotiable.

EDITORIAL

It is with much sadness that I have to report the death of Gordon Knight. Gordon lived in Trevine, North Pembrokeshire and as well as being a very active member of the Wildlife Trust West Wales (WTWW) and honorary warden of the Llangloffan Fen NNR, he wrote several articles for both BSBI News and the Welsh Bulletin. His subjects encompassed such subjects as pollination and floral and faunal associations and were based on his own observations along the Pembrokeshire coast. Indeed he wrote prolifically both for the local press as well as for wider audiences. For most of his working life he was a biology teacher at Lymington College for Boys and it was this professional background which enabled him to write his often provocative articles in which he invited answers to the searching questions he posed. He was skilled and thorough when doing fieldwork and his wry sense of humour would come through when, for example, the horseflies became overwhelming or, on one occasion, when he perceived the new high-tech till in the Trust shop to be beyond him. He was a gentleman and a true naturalist in the old sense and to be with him was always a delight. He will be sadly missed. A fuller obituary appears in the WTWW's summer 1999 issue of Wildlife magazine.

This year's BSBI Welsh AGM is being held at Trinity College, Carmarthen from Friday 20th to Monday 23rd August. Participants are invited to bring along exhibits or posters for display during the weekend. A programme of field meetings at sites in both Carmarthenshire and Pembrokeshire has been arranged for the Saturday morning and Sunday, whilst Saturday afternoon and evening will be taken up with the AGM, talks by local botanists and the exhibition. Those wishing to help with Atlas 2000 and local flora recording will have their opportunity on the Monday when they can assist with site monitoring or tetrad bashing. Many members have expressed a wish to attend but have yet to book. A choice of accommodation is available in either standard or en suite rooms in the college's halls of residence but please act now as the closing date for bookings is August 1st. For your convenience a booking form is enclosed with this bulletin.

My plea in a recent editorial that all local field meetings (additional to those organised by BSBI) be utilised to provide valuable new, or monitoring data for sites visited seems to have fallen on deaf ears. In Carmarthenshire, I have not received any records, let alone species lists, recorded during such events. As I explained before, the opportunity for contributing valuable records is being lost. Generally the excuse is given that participants do not possess the necessary expertise, but quite often this is an excuse for just going along for the 'jolly'. It is impossible for only one or two people to complete all the recording in a county and data from these events could provide a valuable addition to both national and local recording schemes. Remember - it only requires one participant to act as scribe.

In addition to the notices and reports included in this Bulletin, a short article on *Cardamine corymbosa* (New Zealand Bitter-cress) has been contributed by Trevor Evans. However the major part of this issue is taken up with Welsh Plant Records for 1997 compiled by Gwynn Ellis to whom, as always, I am very grateful as I know he is heavily overloaded with his BSBI Hon. Gen. Sec. duties.

Please continue to submit articles for inclusion in future issues in order to ensure the Bulletin's regular appearance.

Finally, several very stimulating field meetings have already taken place this season, so may I urge you to attend as many of the remaining 1999 meetings as possible and I look forward to seeing you at the Carmarthen AGM.

Richard Pryce
11th July 1999

ANNUAL GENERAL MEETING, 1998

The 36th Annual General Meeting and 16th Exhibition Meeting of BSBI Wales was held at Coleg Harlech, Harlech, Merionethshire on Saturday 22nd August 1998.

The day began with a well attended field meeting in fine weather, led by Peter Benoit, to Llechwedd Wood (SH/588.316) and Lasynys Marsh (SH/598.327). *Trichomanes speciosum* gametophytes (now known to be fairly widespread in Wales, unlike the extremely rare sporophyte) were seen at one site. The AGM was held in Coleg Harlech at the end of the afternoon, with 40 members present. Apologies for inability to attend the meeting were received from Mary Briggs, Nigel Brown, Trevor Evans, David Pearman, Joe Phillips and Elsa Wood. The minutes of the last AGM, published in *Welsh Bulletin* 63: 4-7, were accepted without amendment.

The retiring Chairman, Paul Day, thanked Goronwy Wynne for finding the excellent venue for the 1998 AGM weekend at Coleg Harlech, Wendy McCarthy for organising the meeting, and Peter Benoit, the VC Recorder for Merioneth, for leading the field meeting. He welcomed Trevor Dines, the BSBI Atlas 2000 organiser, and Sarah Whild, the new BSBI Co-ordinator, both of whom were present at the AGM. Paul expressed his sadness at stepping down as Chairman at the end of his four-year stint and wished well to the Chairman-Elect, Richard Pryce, in his new role. During his period as Chairman he had been especially grateful to Gwynn Ellis for his hard work as Secretary, to Peter Jones, the Treasurer, for keeping BSBI Wales solvent, and to David Humphreys for organising Field Meetings.

In a wide-ranging survey, he described the involvement of BSBI Wales with many significant projects and developments during this period; the compilation of County Rare Plant Registers with their important role for local Biodiversity Action Plans; Atlas 2000; SACs (Special Areas of Conservation) in Wales; the Millennium Seed Bank project; the new National Botanic Garden of Wales, which had progressed well and is taking shape, with the conservation of the Welsh flora forming an important part of its work; Tir Gofal, the new all-Wales Agri-Environment scheme which will extend Tir Cymen to the whole of Wales; and the opportunities and difficulties arising from the reorganisation of local government in Wales, especially in relation to the progress of local Biodiversity Action Plans.

HON. SECRETARY'S REPORT

The Honorary Secretary, Gwynn Ellis, then recalled that when he had taken over as Secretary in 1977 it was part of his task to review the past year's work after the Chairman had made a few brief remarks. He was glad to say that, at least during the past two years, this situation had largely reversed itself! In addition, the task of minuting was now being undertaken on a rota basis by other members of the Committee for Wales, each acting as Minutes Secretary for a single meeting (for the present AGM, Quentin Kay).

As the Chairman had described, the progress of the Government's biodiversity initiative, including species, habitat and local biodiversity action plans, had formed an important part of BSBI Wales's work during 1998, and had been the subject of a special meeting of the BSBI Committee for Wales in April. The Committee for Wales now included representatives of additional organisations including CCW and the National Botanic Garden of Wales.

Thanks were due to all who had helped the work of the BSBI in Wales during the year. Especial thanks were due to Julian Woodman for his hard work in organising the 1998 (British and Irish) AGM of the BSBI in Cardiff on May 8-11, and also to Gill Barter for organising the AGM field excursion to Flat Holme, and to Richard Pryce for organising the AGM field meeting at the National Botanic Garden, Middleton and at Pembrey. Welsh Plant Records for 1996 was in preparation and should appear in Welsh Bulletin 63 in December. The 1999 Welsh AGM was planned to take place at Carmarthen, and would include field meetings in Carmarthenshire and Pembrokeshire.

HON. TREASURER'S REPORT

The Hon. Treasurer, Peter Jones, reported that the financial situation of BSBI Wales continued to be satisfactory. Unlike the other regions of the BSBI, which required substantial subsidies from the BSBI central budget, BSBI Wales continued to be self-financing, with the AGMs contributing useful profits and the *Bulletin* being produced in the most cost-effective fashion. Excluding receipts from the 1998 AGM, which still had to be finalised but should contribute substantially, the present balance in the current account was £186.95 and in the deposit account £354.72. Many thanks were due to Trevor Evans for his excellent organisation and management of the 1997 AGM including the financial details - and to George Hutchinson for his efficient organisation of the *Welsh Bulletin*.

ELECTIONS

The retiring Vice-Chairman, Richard Pryce was elected unopposed as Chairman on the retirement of Paul Day, and Goronwy Wynne was elected unopposed as Vice-Chairman in his place. The Hon. Secretary, Gwynn Ellis, Hon. Treasurer, Peter Jones, and Hon. Field Secretary, David Humphreys, were re-elected unopposed to their respective posts. Arthur Chater, Stephen Evans, George Hutchinson, Quentin Kay, Wendy McCarthy and Michael Porter were all due to retire under Rule 5 of the Constitution and were eligible for immediate re-election. All had indicated their willingness to stand again and were duly re-elected for a period of two years.

AGM & EXHIBITION MEETING AND FIELD MEETINGS 1999

The newly elected Chairman, Richard Pryce, described the arrangements for the 1999 AGM, which is planned to be based at Trinity College, Carmarthen. At Trinity College, there were apparently either en-suite rooms at about £20/night or ordinary rooms at about £15, but these were located in separate blocks so that the meeting could have only one type of room. A straw poll showed that the majority of members present at the AGM would prefer en-suite if they were available.

The Chairman felt that, as we had had a large number of duneland meetings recently, future field meetings should concentrate on other habitats. Also, it would be desirable to split parties into smaller groups, each with a separate leader and preferably with no more than 10 people in each group. He asked for suggestions for venues and habitats for field meetings.

After discussion of these and other points, the Chairman declared the meeting closed. After the meeting, in place of the planned talk on Morfa Harlech NNR by Jonathan Neal, which had been cancelled because of illness, there were

short talks on biodiversity by Peter Jones, on Atlas 2000 by Trevor Dines and on her work as new BSBI co-ordinator by Sarah Whild.

COMMITTEE FOR WALES, 1998-1999

Following the election of officers and members at the Annual General Meeting, the composition of the Committee for Wales is as follows:

Officers

Chairman and Representative on Council	Mr R. Pryce
Vice-Chairman	Dr G. Wynne
Secretary	Mr R.G. Ellis
Treasurer	Dr P.S. Jones
Field Meeting Secretary	Dr D.R. Humphreys

Committee Members

Mr N.H. Brown*	Mr A.O. Chater	Mr P. Day*
Mr S.B. Evans	Mr T.G. Evans*	Dr G. Hutchinson
Dr Q.O.N. Kay	Mrs W.N. McCarthy	Mr J. Phillips*
Mr M. Porter	Mrs E.G. Wood*	Mr J.P. Woodman*
Mr R.G. Woods (CCW Observer)		

*members due to retire in 1999

CHAIRMAN'S OPENING REMARKS - WELSH AGM, 1998

Paul Day

I would like to welcome everyone to the 36th AGM of the Welsh Region of the BSBI. This year we have broken with tradition by moving the event, which traditionally, when centred in north-west Wales, has been based in Bangor, to this new venue at Harlech, which to my knowledge has not featured previously. It is also an area remote from a local incumbent member of the Committee for Wales, which itself can create its own problems. Nevertheless, it is certainly a locality worthy of this event. I wish to thank Goronwy Wynne for finding the venue and Wendy McCarthy for organising the weekend. Wendy had even organised visits which I had been asked to pursue before I had got round to doing them, such was her efficiency. Unfortunately some aspects of the weekend's programme have had to be changed at the last minute because of the non-availability of one of the main participants. I hope that this will not detract from the weekend.

From a personal viewpoint, I have fond memories of this area from my early days with NCC, and particularly the visits and meetings I had with Peter Benoit at the time. I am extremely pleased that Peter can be with us this weekend.

In some ways this is a sad occasion for me, as it will be my last address to you as Chairman, but I am sure the new Chairman-Elect, Richard Pryce, is a more than adequate replacement for me, and I wish him well in his new role. Richard has been involved on the Committee for Wales for longer than myself, and we are all aware of his current role in the production of the *Welsh Bulletin* with George Hutchinson. Richard is also the vice-county recorder for Carmarthenshire.

I would also like to thank personally all Committee for Wales members for their time, help and assistance in whatever capacity during my four-year period as

Chairman. Without them life would be extremely difficult. I would also wish to single out certain individuals who have been particularly helpful, notably Gwynn Ellis for his knowledge of the Society and its workings; the various Treasurers, including the present incumbent Peter Jones, for keeping us solvent; and Dr David Humphreys for organising the Welsh field visits so efficiently over the years.

As you will remember, at last year's AGM in Usk - and I digress at this point to thank Trevor Evans personally for his Herculean efforts last year for which we are all extremely grateful - I encouraged the membership to undertake as much recording in Wales for the Atlas 2000 project as they are able and to assist with the production of Vice-county Rare Plant Registers to help inform the local Biodiversity Action Plan process. Both these projects should help to promote the image of the BSBI, both in Wales and in a UK context. We need to ensure that the current status of the Society is maintained.

Before I finish I would like to briefly review what has happened both nationally and in Wales over the last four years. In many ways, much has happened over this period, both within the BSBI and elsewhere. As part of this the Committee for Wales has attempted to ensure that the conservation of the Welsh flora has been adequately considered.

At a national, UK level:

1. The BSBI, with the support of the Department of the Environment and ITE, is carrying out the Atlas 2000 project, which is clearly a prestigious one for the Society. This has led the BSBI for the first time to recruit paid staff - the Atlas Organiser, Trevor Dines, and the BSBI Co-ordinator, formerly Cameron Crook and now Sarah Whild. Both Trevor Dines and Sarah Whild are with us today. I am sure that we have much to thank our past president David Pearman for in this context.
2. The Conservation (Natural Habitats and Countryside) Regulations 1994 have come into force and candidate Special Areas of Conservation have been identified. Whether sufficient SACs have been identified to conserve the ranges and important populations of European protected plant species remains to be seen.
3. The Millennium Seedbank project has been initiated under the aegis of the Royal Botanic Garden, Kew.

At a Wales level:

1. The National Botanic Garden of Wales has progressed, with moneys found and a site acquired at Middleton Hall, Carmarthenshire. As we heard at the Cardiff AGM, this project is now taking shape. For Wales this will provide a facility comparable to those that already exist in England and Scotland. The conservation of our native Welsh flora should form an integral part of the Garden's work.
2. Tir Gofal, the name chosen for the recently-announced All-Wales Agri-Environment Scheme, will combine existing schemes such as Tir Cyman and Environmentally Sensitive Areas into a single scheme for the whole of Wales. It will be a whole-farm scheme, and should commence early in 1999. It can only be hoped that the budget for this scheme will be substantial and that the moneys will be appropriately targeted for the greatest benefit of the British flora.
3. Reorganisation of local government in Wales took place in 1995, and led to a reduction in the number of local authorities, with the 37 county and district authorities in a two-tier structure being replaced by 22 unitary, single-tier authorities. This loss of a tier of local government should have facilitated liaison

and dialogue between them and non-governmental conservation bodies such as ourselves. Unfortunately, this reorganisation seems to have corresponded with a decline in the moneys available for authorities to develop initiatives such as nature conservation strategies and local Biodiversity Action Plans quickly, readily and comprehensively. One can only hope that the situation improves and that when these plans are produced the resources are available to implement them. Comprehensive local Biodiversity Action Plans should assist with the conservation of our native flora.

4. The Welsh Language Act is now in force, and I wonder what the BSBI should be doing in respect of this - more than at present, I am sure.

Finally, I would like to thank everyone for their attendance and interest, and we look forward to your continued support in the future. I trust that Richard Pryce will find the role of Chairman as interesting and varied as I have found it to be.

Diolch yn fawr.
Paul Day

BOTANICAL SOCIETY OF THE BRITISH ISLES

37th WELSH ANNUAL GENERAL MEETING

and 17th EXHIBITION MEETING

Friday August 20th to Monday August 23rd 1999: Trinity College,
Carmarthen, Carmarthenshire (Grid Ref. SN397202)
(v.cc. 44 & 45)

Programme

Friday August 20th

- 4.00 (to 6.00) Arrival
- 6.30 Dinner
- 7.30 Walk - to local site(s) (some town plants) followed by Exhibits & slides as time allows

Saturday August 21st

- 8.00 Breakfast (collect packed lunch)
- 9.30 Meet at College (SN397202) for separate field meetings:
 1. Carms. (Pembrey / Burry Port / West Lagoon, Pwll) or
 2. Pembs. (West Williamston)
- 4.00 Return to College for tea and biscuits
Meeting of Committee for Wales
- 4.30 Annual General Meeting in College
- 5.00 Talk: Progress with the Carmarthenshire Flora - R. D. Pryce
- 6.30 Dinner
- 7.30 Talk: Plants of Pembrokeshire - S. B. Evans
- 8.30 Exhibition & slides

Sunday August 22nd

- 8.00 Breakfast (collect packed lunch)
- 9.30 Meet at College (SN397202) for separate field meetings:
 1. Pembs. (Lydstep and Tenby) or
 2. Carms. (Carmel / Pwllledrychiad)
- 6.30 Dinner
- 7.30 Exhibition & slides

Monday August 23rd

- 8.00 Breakfast (collect packed lunch)
- 9.00 Depart, with optional recording for Atlas 2000

ACCOMMODATION

Either en suite or standard

COSTS

Dinner £8.00; Bed & Breakfast £27.00 (en suite) or £17.00 (standard). Please state if vegetarian meals required. Packed lunch £5 (Conference fee (payable by all participants) £2.00.

Booking forms must be returned by Aug 1st to Richard Pryce. (A copy is enclosed with this Bulletin for your convenience, if you haven't already booked).

Mr Richard D. Pryce, Trevethin, School Road, Pwll, Llanelli, Carmarthenshire, SA15 4AL. Tel./Fax: 01554 775847. Email: PryceEco@aol.com

WELSH FIELD MEETINGS PROGRAMME 1999

Details were given in the 'BSBI Yearbook 1999' issued at the beginning of the year

SATURDAY 29th MAY
CAERGWRLE, FLINTSHIRE (v.c.51)
 Leader: Dr G. Wynne

A meeting in a variety of rural habitats, wooded valley and stream, in an area where *Senecio cambrensis* was first found. The meeting will include recording for Atlas 2000.

Meet at 10.30 a.m. in the car park in Caergwrle village, SJ/305.576.

Please send bookings to Dr D.R. Humphreys, Knill Court, Knill, nr Presteigne, Powys LD8 2PR.

SATURDAY 12th JUNE
LLANGRANOG, CARDIGANSHIRE (v.c.46)
 Leader: Mr A.O. Chater

A led meeting to update records and explore the rocky coast and exposed headland by Ynys Lochtyn.

Meet at the car park south of the church, SN/316.538 at 11.00 a.m. Moderately strenuous, good footwear essential.

Please send bookings to Dr D.R. Humphreys, Knill Court, Knill, nr Presteigne, Powys LD8 2PR.

SUNDAY 13th JUNE
HOLYHEAD, ANGLESEY (v.c.52)
Leader: Mr N.H. Brown

A meeting to record around the town of Holyhead and Holy Island for Atlas 2000 and for an Anglesey Flora. The area includes the habitats for *Tephrosia integrifolia* subsp. *maritima* and *Tuberaria guttata*. To cover a variety of habitats we will divide into small groups, some for the more energetic, and others for more gentle walking, but good footwear is essential.

Meet initially at the car park of the Penrhos Country Park, SH/275.805, at 10.30 a.m. The car park is on the north side of the A5 as you leave the Stanley Embankment and drive on to Holy Island.

Please send bookings to Dr D.R. Humphreys, Knill Court, Knill, nr Presteigne, Powys LD8 2PR.

FRIDAY 18th to MONDAY 21st JUNE
LLANOVERY, CARMARTHENSHIRE (v.c.44)
Leader: Mr R.D. Pryce

A meeting to continue recording in under-worked areas of Carmarthenshire for Atlas 2000 and the Carmarthenshire Flora Project. Both upland and lowland areas will be included and participants will be divided into small groups in order to cover as much ground as possible.

The meeting will again be based at the highly acclaimed Llwyn Celyn Guesthouse on the western outskirts of Llandovery, SN/760.347. It is situated on the north-west bank of the River Tywi adjacent to the A40, and is within easy walking distance of Llandovery Station. Approximate cost of the weekend accommodation in either single or double rooms is expected to be about £90 per person, and will include bed, breakfast and evening meal from Friday evening to Monday morning. Non-resident participants will be welcome, and evening dinner will be available at Llwyn Celyn. All seven rooms have been provisionally reserved, but it is essential to book **NOW** so that extra costs are not incurred should some rooms remain vacant. Please send bookings **IMMEDIATELY** to Richard Pryce, Trevethin, School Road, Pwll, Llanelli, Dyfed SA15 4AL or phone 01554-775847.

SATURDAY 26th JUNE
LLANWRTYD WELLS, BRECKNOCK (v.c.42)
Leader: Mr M. Porter

A meeting for Atlas 2000 recording, where it is hoped to re-find some of the rough pastures from which species such as *Gymnadenia conopsea*, *Genista anglica*, *Vicia orobus* and *Dactylorhiza purpurella* have been recorded in the past.

Meet in the car park at Llanwrtyd Wells, SN/880.466, at 11.00 a.m. Footwear suitable for rough, boggy ground is essential.

Please send bookings to Dr D.R. Humphreys, Knill Court, Knill, nr Presteigne, Powys LD8 2PR.

SATURDAY 3rd JULY
LLANRHAEADR-YM-MOCHNANT, DENBIGHSHIRE (v.c.50)

Leader: Mrs Jean Green

(Note this is NOT Llanrhaeadr near Denbigh). A meeting to record in this under-worked square with 380 species to date. An end-of-the-road village 20 km W of Oswestry.

Meet near the school at SJ/125.259 at 11.00 a.m. We will record in groups, some energetic, some with gentle walking only.

Please send bookings to Dr D.R. Humphreys, Knill Court, Knill, nr Presteigne, Powys LD8 2PR.

SUNDAY 4th JULY
ESGAIRDRAENLLWYN, RADNORSHIRE (v.c.43)

Leader: Dr D.R. Humphreys

A remote area of northern Radnorshire with almost fewer records than the length of its name. Upper reaches of the River Ithon, heathland and woodland. Records needed for Atlas 2000 to reduce a 'hit list' in which there are still common plants to be re-found.

Meet at the picnic site (with toilets), on the A483 at SO/094.746 at 11.00 a.m.

Please send bookings to Dr D.R. Humphreys, Knill Court, Knill, nr Presteigne, Powys LD8 2PR.

SUNDAY 18th JULY
CRAIG OGWR, RHONDDA FAWR, GLAMORGAN (v.c.41)

Leader: Mr J.P. Woodman

An Atlas 2000 recording meeting starting on the plateaux of the South Wales coalfield. Nearby is Mynydd Ty-isaf SSSI, a series of cwms in the Pennant sandstone with a variety of ferns (but no Killarney fern gametophytes, yet!). The terrain varies from rank *Molinia* grassland, heathland, conifer plantation, acidic crags in the uplands above the valleys to a mosaic of habitats on the valley sides and bottoms, including post-industrial 'wasteland', grassland, scrub & woodland, bracken, heathland and urban streets. Some of the terrain may be hard going in the uplands, especially if the weather is bad and stout footwear, waterproofs and packed lunches are therefore essential. Depending on numbers and weather, a group or groups may like to drive down into the valley to the south.

Meet at the car park/viewpoint (SS/938.948) on the A4061 to the west of Treorchy at 10.30 a.m.

Please send bookings to Dr D.R. Humphreys, Knill Court, Knill, nr Presteigne, Powys LD8 2PR.

SUNDAY 8th AUGUST
PORTHMADOC AND BEDDGELERT AREA, CAERNARFONSHIRE, (v.c.49)
Leader: Mr G.H. Battershall

A meeting in the south of Caernarfonshire to include recording for Atlas 2000. There will be a variety of habitats including woodland, moorland, marsh, lakes, riverside and waste ground.

Meet at the car park at Tremadoc, SH/562.402 at 10.30 a.m.

Please send bookings to Dr D.R. Humphreys, Knill Court, Knill, nr Presteigne, Powys LD8 2PR.

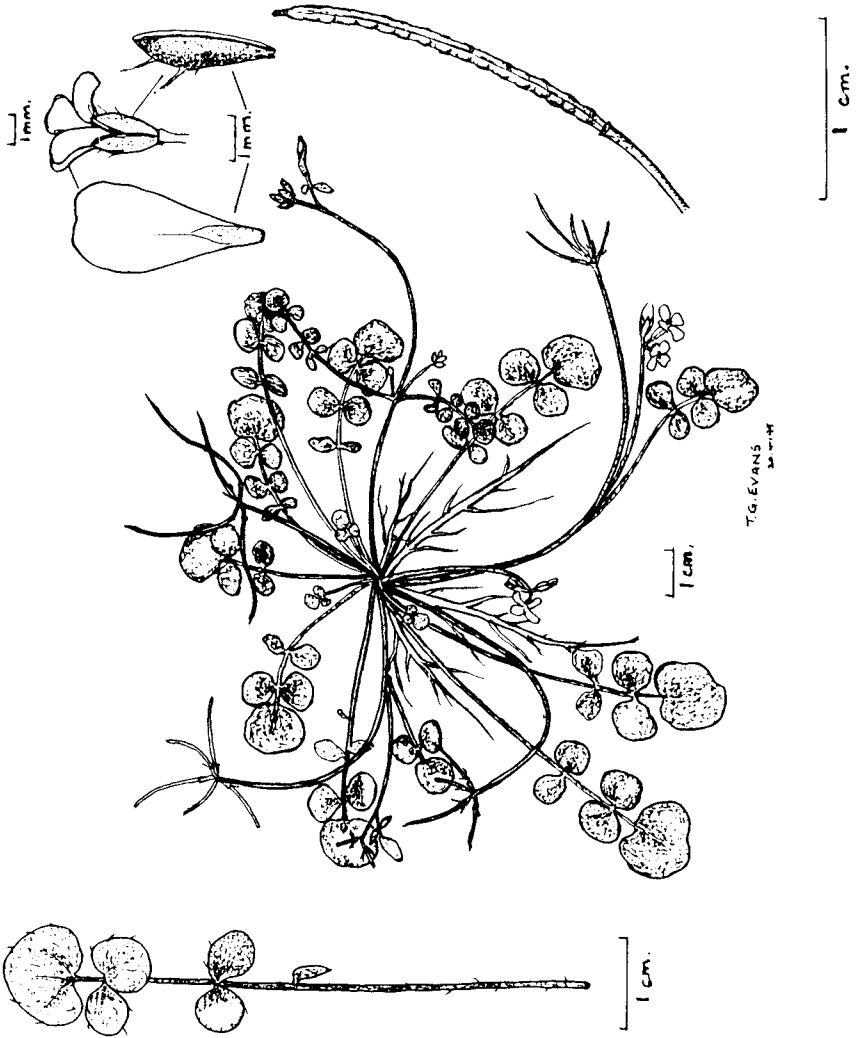
Cardamine corymbosa Hook. f. - New Zealand Bitter-cress

This New Zealand cress has arrived in Monmouthshire in a nursery garden five miles from Chepstow and I am assured by the proprietor that it is in, at least, three other nurseries. Like Hairy Bitter-cress it produces fruits just as abundantly and scatters its seed just as explosively, so its spread is likely to be rapid, unless early steps are taken to eradicate it. Weeding it out is not as likely to be as easy as with its English cousin as its root system seems to consist of several tap roots with many secondary roots that tediously cling to the soil. It is stated that plantlets arise from the end pair of leaflets where the procumbent leaves touch the soil; I could see no evidence of that in the nursery this April, but this form of propagation, in other plants, only occurs late in the season. Before steps can be taken the plant needs to be recognised; and even before that, nurserymen and gardeners need to be on the lookout for its appearance. My drawing should help in recognition, though I have deliberately reduced the number of radiating, ground-hugging, basal leaves for clarity.

Key features that distinguish *Cardamine corymbosa* are the large number of radiating, ground-hugging, basal leaves, the lack of upright, stiff, central, flower-bearing stems; the flower-bearing stems radiate out parallel to the ground before ascending and bearing 1-6 pedicels arising from the same point or close to it at the tip of the stem; the fruit elongate quickly to form digitately arranged long, narrow siliqua; to the naked eye the plant looks relatively glabrous, made more apparent as the delicate translucent hairs wear off quite quickly. With a lens hairs are quite noticeable on the lower sections of the stems and petioles. Ciliate hairs occur on the edge of the leaves and a few on the lamina. Flowering stems may bear a pair of leaves below half way and a leaf just below the flowers.

Cardamine hirsuta is a stiffer more hairy plant. Its basal leaves are fewer and less ground-hugging. It tends to be larger. It usually has a stiff, upright, flowering stem that bears its pedicels in a loose spiral arrangement, never arising from a common point. Large plants tend to have a number of procumbent flowering stems but rise more quickly and gradually, or remain horizontal and stiff. If one grasps them by the leaf rosette they pull out quite easily, their tap root emerging like a miniscule carrot.

Cardamine corymbosa has no attractive features, like those that have persuaded gardeners to introduce other alien plants, that have later escaped and become pernicious weeds, so steps need to be taken as soon as it is observed, to avoid like tragedies.



WELSH PLANT RECORDS – 1997

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 or updated hectad record
- † before the species number: to indicate that the species is not native to Wales
- ‡ before the record: 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

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 1 km or even a 100 m square may be included. A letter in parenthesis following a 4 figure grid reference indicates a tetrad.

The Vice-county Recorders from 1/1/1999 are:

- MONMOUTH, v.c. 35 – Mr T.G. Evans, La Cuesta, Mounon 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.P. Woodman, c/o CCW, Unit 4, Castelton Court, Fortran Road, Cardiff CF3 0LT
 BRECON, v.c. 42 – Mr M. Porter, Aberhoewy Farm, Cyffredyn Lane, Llangynidr, nr Crickhowell, Powys NP8 1LR
 RADNOR, v.c. 43 – Dr D.R. Humphreys, Knill Court, Knill, nr Presteigne, Powys LD8 2PR
 CARMARTHEN, v.c. 44 – Mr R.D. Pryce, Treveithin, School Road, Pwll, Llanelli, Carmarthenshire SA15 4AL
 PEMBROKE, v.c. 45 – Mr S.B. Evans, Glan-y-Mor, Dinas Cross, Newport, Pembrokeshire SA42 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 LL29 6DJ
 DENBIGH, v.c. 50 – Mrs J.A. Green, Coed Duon, Tremeirchion, St Asaph, Denbighshire LL17 0UH
 FLINT, v.c. 51 – Dr G. Wynne, Gwylfa, Lixwm, Holywell, Flintshire CH8 8NQ
 ANGLESEY, v.c. 52; Mr N.H. Brown, Treborth Botanic Garden, University College of North Wales, Bangor, Gwynedd LL57 2RQ and Mr I.R. Bonner (all correspondence to N.H. Brown).

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

- 5/2/1. *Botrychium lunaria* (Moonwort)(Lloerlys). 1 plant on coal tip spoil, Cwm Du, SO/25.02, T.G. Evans, 1997.
- +16/4/2. *Gymnocarpium robertianum* (Limestone Fern)(Llawredynen y Calchfaen). Introduced on railway ballast at foot of sandstone cutting opposite Brockweir, SO/53.01, W.A. Shoolbred, 1895. Recently discovered in **NMW** mounted on same sheet as a Gloucester specimen and filed under that County.
- *39/4/2 × sub. *Quercus × crenata* (*Q. cerris* × *Q. suber*)(Lucombe Oak). 2 trees in churchyard at Trevethin, SO/284.020, C. Titcombe, 1997. 2nd Welsh record.
- 46/7/10. *Cerastium diffusum* (Sea Mouse-ear)(Clust Llygoden Arfor). Scattered small population on quarry floor, Risca, ST/28.91, T.G. Evans, 1997, **herb. T.G.E.**
- +†46/25/7. *Dianthus armeria* (Deptford Pink)(Penigan y Porfeydd). c.1500 plants in rough grassland over blackish dusty soil among immature trees of *Betula pendula*, Newport Docks, ST/305.862, M. Jones, 1997, **NMW**, conf. T.G. Evans.
- 74/9/2. *Chrysosplenium alternifolium* (Alternate-leaved Golden-saxifrage)(Eglyn Cylch-ddail). A patch of c.1 m² on top of low vertical stream bank, Gaer House Wood, SO/36.23, T.G. Evans, 1997.
- *†75/32/37. *Cotoneaster dielsianus* (Diels' Cotoneaster). Bird sown on old wall with *C. horizontalis*, Abergavenny, SO/29.14, I.K. Morgan, 1993, **NMW**, det. G. Hutchinson.
- +75/35/8. *Crataegus laevigata* (Midland Hawthorn)(Draenen Ysbyddaden). One very mature tree, (planted?) in churchyard, Llangua, SO/38.25, T.G. Evans, 1997.
- *†77/14/13. *Vicia lutea* (Yellow-vetch)(Ffugbysen Felen Arw-godog). Less than 10 plants on railway embankment nr bridge over Afon Honddu, Llanvihangel Crucorney, SO/32.20, Mrs S.A. Rippin, 1987.
- +84/6/1 × 2. *Circaea × intermedia* (*C. lutetiana* × *C. alpina*)(Upland Enchanter's-nightshade) (Gwynlys Mynydd-dir). 2 large patches in woodland under beeches on Old Red Sandstone, Darren Wood, Wentwood, ST/40.94, T.G. Evans, **herb. T.G.E.**, 1997. 1st record for the east of the county.
- +91/2/7. *Euphorbia serrulata* (Upright Spurge)(Llaethlys Mynwy). +19 plants on N side of forestry track, Chepstow Park Wood, ST/48.97, T.G. & U.T. Evans, 1997. 169 plants where tall hedge cut down along path at E edge of mixed woodland, Blackcliff Wood, S of Tintern, ST/53.98, T.G. Evans, 1997. About 500 plants on sides of forestry track, Ravensnest Wood, ST/50.99, C. Titcombe, 1997. 5 plants at SE corner of T junction of forest tracks, N of Cleddon Hall, SO/51.04, T.G. & U.T. Evans, **herb. T.G.E.**, a new site.
- 116/2/1. *Echium vulgare* (Viper's-bugloss)(Glas y Graean). Over 400 plants in rough grassland, Newport Docks, ST/31.84, M. Jones, 1997.
- *†124/1/6. *Verbascum densiflorum* (Dense-flowered Mullein). 1 plant with 3 main branched stems, on trackside in Council road maintenance site, Dixon, Monmouth, SO/51.13, T.G. & U.T. Evans, 1997, **herb. T.G.E.**
- 135/7/1. *Onopordum acanthium* (Cotton Thistle)(Ysgallen Gotymog). 62 plants in rough grassland, Newport Docks, ST/31.84, M. Jones, 1997.
- *135/25/65. *Taraxacum haematicum* (a dandelion). Short turf over coal waste, Cum Du, SO/25.02, T. G. Evans, 1997 **NMW**, det. A.J. Richards.
- *135/25/125. *Taraxacum cyanolepis* (a dandelion). River Wye meadow covered by Spring tides, N of Chepstow Castle, ST/531.951, T.G. Evans, 1997, **NMW**, det. A.J. Richards.
- *135/25/bre. *Taraxacum breconense* (a dandelion). Short turf over coal waste, Cwm Du, SO/25.02, T. G. Evans, 1997, **NMW**, det. A.J. Richards. +Short turf over covered reservoir, S of Blaenavon, SO/262.067, T.G. Evans & C. Titcombe, 1997, **NMW**, det. A.J. Richards. 1st records outside v.c.42.
- †138/2/1. *Stratiotes aloides* (Water-soldier)(Alaw Diosgo). Planted in artificial pond in Water Park Pond, nr Autophon Factory, St Mellons, ST/249.815, G. Hutchinson, 1994.

- Also in Industrial Park, Pwll-mawr, ST/223.787, T.G. Evans, 1996. 1st records. A series of ponds and lakes have been created between Newport and Cardiff with some strange plantings.
- 151/1/25 × 26. *Juncus* × *diffusus* (*J. effusus* × *J. inflexus*)(Diffuse Rush)(Brwynen Dryledol). 1 large plant in acid heath, Keeper's Pond, SO/254.106, J. Woodman, 1997. 2nd record.
- +152/16/44. *Carex hostiana* (Tawny Sedge)(Hesgen Dywyll-felen). About 50 plants in marsh on edge of grassy field, Underwood, ST/38.89, T.G. Evans, 1987. With *Juncus subnodulosus*, *Dactylorhiza incarnata*, *Triglochin palustre*, *Senecio aquaticus*, *Valeriana dioica*, *Carex disticha*.
- +153/13/tem. *Lolium temulentum* (Darnel)(Efrau). Top of steep meadow, Star Hill, SO/46.01, T.G. Evans, 1997.
- *153/21/2. *Catapodium marinum* (Sea Fern-grass)(Corwenithwellt y Morfa). On exposed former shelly beach on R. Severn bank, Rumney Great Wharf, ST/248.786, Mrs P. Millman, *et al.*, 1997. Though looking native in a suitable habitat, much material has been imported to build up nearby sea wall and status is uncertain.
- *159/2/5. *Sisyrinchium striatum* (Pale Yellow-eyed-grass). 2 plants on earth mound in road development, Cleppa Park, Newport, ST/278.847, G. Hutchinson, 1994.

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

- +28/2/1. *Trollius europaeus* (Globeflower)(Cronnell). River bank at Aberdulais, SS/77.00, C.R. & H. Hipkin, 1997. Rediscovered at a site where it was apparently last recorded in c.1842; the southernmost extant site in the v.c. (and in Britain?).
- +43/1/13. *Chenopodium ficifolium* (Fig-leaved Goosefoot)(Troed yr Wÿdd Ffigys-ddail). Maize field at Vennaway Lane, Bishopston, SS/566.895, A.S. Lewis, 1997.
- +46/25/7. *Dianthus armeria* (Deptford Pink) (Penigan y Porfeydd). +98 flowering and 140 non-flowering plants in open stoney waste in old, disused, sandstone quarries, Cwm Clydach, Rhondda, SS/961.926, J.P. Woodman; +74 plants counted on dry bank by Baglan Reservoir, SS/741.930, C.R. Hipkin. Known in this area for several years. Both 1997. 2nd extant v.c. records.
- +47/8/16. *Rumex rupestris* (Shore Dock)(Tafolen y Traeth). 21 fruiting plants on largely inaccessible tuffaceous cliff-ledge near Dunraven. SS/88.72, Q.O.N. Kay, 3.10.1996. Last reported here in 1934 and believed to be extinct in the vice-county.
- +62/30/5. *Lepidium ruderales* (Narrow-leaved Pepperwort)(Pupurlys Culddail). Waste ground, Alexandra Road, Swansea, SS/655.934, A.S. Lewis, 1997.
- +162/34/4. *Brassica juncea* (Chinese Mustard). Waste ground, Cannisland Park near Bishopston, SS/565.899, A.S. Lewis, 1997.
- *169/1/1 × pru. *Primula* × *pruhonicensis* × *P. vulgaris* (Hybrid Primulas). Hybrid swarms in chapel graveyard with both parents, Rhyd y Fron, nr Pontardawe, SN/713.059, R.G. & J.D. Woods, 1997.
- +74/5/16. *Saxifraga hypnoides* (Mossy Saxifrage)(Tornaen llydandroed). Apparently native in a small area of the upper limestone sea-cliff at Pwlldu Head, Gower, SS/571.865, A.S. Lewis, 1997. First record in lowland Glamorgan.
- +77/10/3. *Ornithopus perpusillus* (Bird's-foot)(Troed yr Aderyn). Dry hedgebank on Cefn Bychan, Gower, SS/543.951, A.S. Lewis, 1997.
- +191/2/3. *Euphorbia corollifolia* (Coral Spurge)(Fflamgoed Gwrel). Woodland margin at Barland Common, Bishopston, SS/578.899, A.S. Lewis, 1997.
- +118/23/5. *Mentha pulegium* (Pennyroyal)(Brymllys). Several patches in c. 5 × 10 m of open ground on small rubble tip at Atlantic College, St. Donat's, SS/934.682, J. Mendelsohn and J.P. Woodman, 1997. Found here by J.P. Curtis c.1995.
- +131/2/2. *Viburnum lantana* (Wayfaring-tree)(Gwifwrnwydden). Several bushes in native cliff scrub on Thistleboon Headland, Mumbles, SS/620.869, Q.O.N. Kay, 1996.

Apparently native; the first such population found in Gower.

- +133/1/2. *Valerianella carinata* (Keelèd-fruited Cornsalad)(Llysiâu'r Oen Rhychiog). Waste ground near roundabout at Crymlyn Burrows, close to a large dune population of *V. locusta*, SS/717.934, C.R. Hipkin, 1997.
- +133/2/3. *Valeriana dioica* (Marsh Valerian)(Triaglog y Gors). Shaded fen at Crymlyn Burrows, SS/705.930, A.S. Lewis, 1997.
- +135/30/1. *Filago vulgaris* (Common Cudweed)(Edafeddog). With *F. minima* on waste ground at a building site at Jersey Marine, Swansea, SS/713.938, C.R. Hipkin, 1997.
- +148/1/1. *Spirodela polyrrhiza* (Greater Duckweed)(Llinad Mawr). Abandoned Carboniferous Limestone sheep-dip, Tythegston, SS/864.781, P.S. Jones & S. Thomas; +Abundant in a concrete drinking-pond in the SW corner of a field near Tresilian, SS/953.680, Q.O.N. Kay, both 1997. 1st recent records.
- +152/1/2. *Eriophorum latifolium* (Broad-leaved Cottongrass)(Plu'r Gweunydd Llydanddail). Two small patches in M24 *Molinia* meadow near Clyne Common, SS/585.898, C.R. Hipkin & R.F. John, 1997.
- +152/13/1. *Rhynchospora alba* (White Beak-sedge)(Corsfrwynen Wen). In small quantity by runnels in a bog above Whitemoor, Rhossili Down, SS/425.899, C. Hurford, 1996.
- +152/16/7. *Carex spicata* (Spiked Sedge)(Hesgen Dywysennog Borffor). Roadside verge on B4282 between Bryn and Maesteg, SS/822.921, C.R. Hipkin, 1997.
- +153/3/1. *Sasa palmata* (Broad-leaved Bamboo)(Bambŵ). Dense stand of c.2 ha by River Llan in Valley Wood, Penllergaer, SS/629.985, R.D. Pryce, 1997.
- +159/9/2b. *Gladiolus communis* subsp. *byzantinus* (Eastern Gladiolus). Naturalised on seacliffs, Rotherslade, SS/611.873, A.S. Lewis, 1997.
- +162/17/1. *Coeloglossum viride* (Frog Orchid)(Llys Ysgyfarnog). Limestone grassland, Cefn Onn, N of Cardiff, ST/172.851, S. Westwood & C. Mockridge, 1997. The only recent record. Last recorded in v.c. 41 on Caerphilly Common (ST/1.8) in 1946 by L. Reynolds.

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

- +143/1/8. *Chenopodium polyspermum* (Many-seeded Goosefoot)(Troed yr Wÿdd Luos-hadog). Weed in allotment, Hay-on-Wye, SO/229.424, M. & C. Porter, 1997. 3rd record.
- *62/22/1. *Erophila majuscula* (Hairy Whitlowgrass)(Bystwn Blewog). Limestone outcrop, Ystradfellte, SN/915.134, M. Porter, 1997. 1st record for segregate.
- +162/38/1. *Hirschfeldia incana* (Hoary Mustard)(Cedw Penllwyd). Road verge, Talgarth, SO/153.337, M. Porter, 1997. 2nd record.
- *175/4/1. *Arunco diocicus* (Buck's-beard). Probably a garden outcast established on river bank, Sennybridge, SN/92.28, R.G. Woods, 1997.
- +75/8/317. *Rubus tenuiarmatus* (a bramble). Hedge and lane verge, Dgedi valley nr Llanigon, SO/21.38, M. Porter, 1997. **herb. M.P.** 2nd record.
- *75/8/321 x 7. *Rubus caesius* x *R. idaeus*. Hedge, Tretower, SO/188.211, M. Porter, 1997, **herb. M.P.**, conf. A. Newton.
- +175/28/7. *Sorbus intermedia* (Swedish Whitebeam)(Cerddinen Dramor). 1 young plant c.15 cm tall in waste ground, Brynmawr, SO/167.119, M. & C. Porter, 1997. 2nd record.
- *177/15/6. *Lathyrus tuberosus* (Tuberous Pea)(Ytbyesen Gnapiog). Edge of disused railway, Cradoc, SO/014.304, E. Tompkins, 1997. **herb. NMW**. At this site for at least 10 years.
- +102/1/6. *Oxalis stricta* (Upright Yellow-sorrel)(Suran Felen Unionsyth). Allotment weed, Hay-on-Wye, SO/229.424, M. & C. Porter, 1997.
- +124/23/1. *Parentucellia viscosa* (Yellow Bartsia)(Gorudd Melyn). †Single plant probably introduced in grass-seed mixture on road verge, nr Llyswen, SO/141.375, M. & C. Porter, 1997. 2nd record.

- +135/3/1. *Arctium lappa* (Greater Burdock)(Cyngaf Mawr). †Waste ground, Brynmawr, SO/185.116, M. Porter, 1997. 3rd record.
- +135/17/1. *Picris echioides* (Bristly Oxtongue)(Tafod y Llew). †Waste ground, Brynmawr, SO/18.13, R.G. Woods, 1997.
- *†135/40/5. *Solidago graminifolia* (Grass-leaved Goldenrod). Naturalised on waste ground, Brynmawr, SO/185.116, M. Porter, 1997.
- †138/4/2. *Elodea nuttallii* (Nuttall's Waterweed)(Alaw Nuttall). Llangorse Lake, SO/128.270, M. Porter, 1997. 1st record away from Brecon & Monmouth Canal.
- +153/26/2. *Helictotrichon pratense* (Meadow Oat-grass)(Ceirchwellt Culddail). Rock outcrops on Black Mountains, Y Das, nr Talgarth, SO/19.32, M. Porter, 1997.
- +†153/38/3. *Phalaris canariensis* (Canary-grass)(Pefrwellt Amaethol). Meadow, Llanbedr, SO/235.217, P.J. Pope, 1997.
- *†153/59/3. *Hordeum jubatum* (Foxtail Barley)(Heiddwellt Cribog). Well established on verges of A465, btwn Brynmawr and Rhymney, SO/18.12, T.G. Evans, 1997.
- *135/25/124. *Taraxacum curtifrons* (a dandelion). Bank of old lane nr Llanbedr {not Llan-gynidr as given in Welsh Plant Records 1996}, SO/225.193, M. Porter, 1996, **herb**. **M.P.**, det. A.J. Richards.

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

- +†7/3/1. *Adiantum capillus-veneris* (Maidenhair Fern)(Briger Gwener). 6 plants growing out of old mortar of wall, Stepney Road. Pwll, Llanelli, SN/486.011, Mrs C. Lewis, 1997, **NMW**, conf. R.N. Stringer. 3rd record.
- +10/2/1. *Trichomanes speciosum* gametophyte (Killarney Fern)(Rhedynden Wrychog). In cavity in NE facing rock outcrops in *Quercus petraea* wood, Allt Rhyd-y-Groes, SN/767.478, A.C. Jermy & A.O. Chater, 1997.
- 11/1/1 × 2. *Polypodium × mantoniae* (*P. vulgare* × *P. interjectum*). Rock outcrop in *Quercus petraea* wood, Allt Rhyd-y-Groes, SN/767.478, A.C. Jermy & A.O. Chater, 1997, det. A.C.J.
- 15/2/5a. *Asplenium trichomanes* subsp. *trichomanes* (Maidenhair Spleenwort)(Duegredynen Gwallt y Forwyn). Shaded rock outcrop in E facing oakwood, Allt Rhyd-y-Groes, SN/767.478, A.C. Jermy & A.O. Chater, 1997.
- 17/3/3c. *Dryopteris affinis* subsp. *borreri* [Borrer's Male-fern] (Marchredynen Feddal). Abundant in steep, rocky, *Quercus petraea* wood, Allt Rhyd-y-Groes, SN/766.479, A.C. Jermy & A.O. Chater, 1997, **BM**.
- 17/3/7 × 9. *Dryopteris × deweveri* (*D. carthusiana* × *D. dilatata*)(a hybrid buckler-fern). Abundant in several areas in acid *Quercus petraea* wood, Allt Penarth, Pumpsaint, SN/650.408, A.C. Jermy & A.O. Chater, 1997, det. A.C.J.
- +31/5/3. *Fumaria bastardii* (Tall Ramping-fumitory)(Mwg y Ddaear Grymus). Headland retained for pheasants, Hafod-neddyn Farm, Llangathen, SN/584.243, Q.O.N. Kay, 1997.
- +28/13/4. *Ranunculus sardous* (Hairy Buttercup)(Crafanc y Frân Blewog). Pembrey Saltings, SS/423.996, R.N. Stringer & R.H. Davies, 1997. 5th record.
- 46/20/12. *Silene conica* (Sand Catchfly)(Gludlys Rhesog). Few plants in loosely laid limestone chippings. Burry Port AFC car park, SN/452.005; R.D. Pryce, 1997.
- +46/20/11. *Silene gallica* (Small-flowered Catchfly)(Gludlys Amryliw). Several hundred plants on dry sandy soil on top of northern wall of West Dock, Burry Port Harbour, SN/444.006, R.D. Pryce, 1997, **NMW**. 1st post-1920 record for hectad and 1st v.c. record since c. 1960.
- *47/1/14. *Persicaria hydropiper* var. *hydropiper* (Water-pepper)(Tinboeth). Barley stubble field, Hafod-neddyn Farm, Llangathen, SN/582.238, Q.O.N. Kay, 1997. 1st record of the variety.
- +47/5/4. *Fallopia convolvulus* (Black-bindweed)(Taglys yr Ŷd). Weedy swede field,

- Dyffryn-isaf Farm, Cothi Valley, SN/534.267, Q.O.N. Kay, 1997.
- +57/1/12. *Viola tricolor* (Wild Pansy)(Trilliw). Barley stubble field, Llety'r-gofid Farm, Llanegwad, SN/528.228, Q.O.N. Kay, 1997.
- 57/1/12a. *Viola tricolor* subsp. *tricolor* (Wild Pansy)(Trilliw). Dry acid grassland on upland fringe, Glanmarlais, Llansadwrn, SN/676.333, H. Manley, 1997, **NMW**. det. Prof. D.M. Moore.
- +57/1/13. *Viola arvensis* (Field Pansy)(Ofergaru). Barley stubble field, Llety'r-gofid Farm, Llanegwad, SN/526.224, Q.O.N. Kay, 1997.
- +62/12/3. *Rorippa islandica* (Northern Yellow-cress)(Berwr Melyn y Gogledd). Waste ground with much *Rubus* (former railway sidings) nr Royal Mail Sorting Office, Stephens Way, off Pensarn Road, Carmarthen, SN/412.195, G. Hutchinson *et al.*, 1994. +In wet shallow mud at bottom of Forge Quarry, Cwmduwyfran, SN/408.257, G. Hutchinson, 1992, both **NMW**, det. T.C.G. Rich.
- 62/12/4. *Rorippa palustris* (Marsh Yellow-cress)(Berwr Melyn y Gors). S bank of Afon Teifi, 200 m W of Pont Stephen, Cwmann, SN/578.476, T. Pankhurst, 1997, conf. A.O. Chater.
- +69/1/1. *Primula vulgaris* (Primrose)(Briallu). 'Jack-in-green' form with leafy calyxes, in grassland in chapelyard to N of Carn Goch, Bethlehem, SN/687.249, R.G. & J.D. Woods, 1997.
- +69/1/1 × 3. *Primula* × *polyantha* (*P. vulgaris* × *P. veris*)(False Oxlip)(Briallu Tal Ffug). With both parents in grassland in chapelyard to N of Carn Goch, Bethlehem, SN/687.249, R.G. & J.D. Woods, 1997.
- 69/6/3. *Anagallis minima* (Chaffweed)(Corfrilys). 5-10 small plants in damp wheel-ruts in little used track through scrubbed-over dune slack, Laugharne Burrows, SN/291.071, A. Jones, 1996. 1st post-1970 record for site.
- 74/9/2. *Chrysosplenium alternifolium* (Alternate-leaved Golden-saxifrage) Eglyn Cylchddail). Small patch with *Trollius europaeus* & *Meconopsis cambrica*, 1 or 2 stems only in gravelly substrate, shaded rocky river bank of Afon Sawdde, E of Coedshone, Llangadog, SN/722.251, R.G. & J.D. Woods, 1997.
- 75/9/13b. *Potentilla erecta* subsp. *strictissima* (Tormentil)(Tresgl y Moch). Among *Calluna* and *Vaccinium* under oaks, W side of stream, Allt Rhyd-y-Groes, SN/766.479, A.O. Chater & A.C. Jermy, 1997, **NMW**.
- +75/9/14 × 15. *Potentilla* × *mixta* (*P. erecta* × *P. reptans* & *P. anglica* × *P. reptans*)(Hybrid Cinquefoil). Hedgebank base, NW of Myddfai, SN/771.303, G. Hutchinson & J. Bevan, 1997, **NMW**.
- +†77/15/7. *Lathyrus grandiflorus* (Two-flowered Everlasting-pea). Hedgebank on W side of minor road NW of Myddfai, SN/770.304, G. Hutchinson & J. Bevan, 1997, **NMW**.
- 77/19/22. *Trifolium scabrum* (Rough Clover)(Meillionen Ger y Môr). In sandy shallow soil around coping stone, in northern wall of western inner dock, Burry Port Harbour, SN/444.006; Loosely laid limestone chippings, Burry Port AFC car park, SN/452.005; both R.D. Pryce, 1997.
- +84/1/6 × 8. *Epilobium obscurum* × *E. ciliatum* (a hybrid willowherb). Swampy ditch btwn road and Afon. Teifi, 300 m SE of Pont Stephan, Cwmann, SN/583.474, A.O. Chater, 1997. 2nd confirmed record.
- +91/2/8. *Euphorbia helioscopia* (Sun Spurge)(Llaeth Ysgyfarnog). Weedy swede field, Dyffryn-isaf Farm, Cothi Valley, SN/534.267, Q.O.N. Kay, 1997.
- +31/5/5. *Fumaria muralis* (Common Ramping-fumitory)(Mwg y Ddaear Amrywiol). Weedy swede field, Dyffryn-isaf Farm, Cothi Valley, SN/534.267, Q.O.N. Kay, 1997.
- +†102/1/6. *Oxalis stricta* (Upright Yellow-sorrel)(Suran Felen Unionsyth). Barley stubble field, Hafod-neddyn farm, Llangathen, SN/583.243, Q.O.N. Kay, 1997. 4th record.
- +†107/41/2. *Heracleum mantegazzianum* (Giant Hogweed)(Efwr Enfawr). 3 plants, 1 flowering at bottom of roadside bank btwn ditch and foot of hedge on new A484, Trostre, Llanelli, SS/533.994, S. Rhodes, 1997, conf. R.D. Pryce.

- *116/15/1 × 4. *Myosotis* × *suzae* (*M. scorpioides* × *M. laxa*)(a hybrid forget-me-not). Swampy ditch btwn road and Afon Teifi, 300 m SE of Pont Stephan, Cwmann, SN/583.474, A.O. Chater, 1997.
- +118/1/8. *Stachys arvensis* (Field Woundwort)(Briwlys yr Yd). Barley stubble field, Llety'r-gofid Farm, Llanegwad, SN/526.224, Q.O.N. Kay, 1997.
- +118/5/4. *Lamium hybridum* (Cut-leaved Dead-nettle)(Marddanhadlen Rwygddail). Barley stubble field, Llety'r-gofid Farm, Llanegwad, SN/526.224, Q.O.N. Kay, 1997.
- *†124/1/pho. *Verbascum phoeniceum* (Purple Mullein)(Pannog Brithgoch). Weed in vegetable garden (planted), Glyn Abbey, SN/447.080, R.D. Pryce, 1997. Reported to be casual and spontaneous but subsequently proven to have been planted.
- +124/12/1. *Kickxia elatine* (Sharp-leaved Fluellen)(Llyisiau Llywelyn). Abundant in bare ground of car park, Llyn Llech Owain Country Park. SN/565.148, A. Lewis, 1997. +Headland of ploughed but unsown field, Hafod-neddyn Farm, Llangathen, SN/583.238, Q.O.N. Kay, 1997.
- †124/13/6. *Linaria supina* (Prostrate Toadflax)(Gingroen Gorweddol). Few plants in loosely laid limestone chippings, Burry Port AFC car park, SN/452.005; R.D. Pryce, 1997.
- 124/18/1. *Sibthorpia europaea* (Cornish Moneywort)(Ceinioglys). 1 small plant only, on side of culverted water flow in shady hedgerow, Pant-y-Bettws, SW of Llanfihangel Rhos-y-Corn Church, SN/547.345; 1 plant extending to c. 40 cm in roadside ditch beneath hedge, N of Fforest Farm, 0.8 km N of Brechfa, SN/522.311, both M. & J. Iliff, 1997. (Sites monitored by J. & M. Iliff. Other previously known sites searched appeared to be devoid of *Sibthorpia*). 2 small patches on vertical outcrop facing SE across stream running into Nant Gorled, 2.5 km N-NW of Abergorlech, SN/572.359 [Not SN/573.379 as given previously], T.S. Crosby, 1987.
- 124/23/1. *Parentucellia viscosa* (Yellow Bartsia)(Gorudd Melyn). c.20 plants at classic site which had hundreds when clear-felled in 1985, disturbed dunes, Pembrey Forest, SN/408.009, J. Humphrey, 1997.
- +124/25/2b. *Pedicularis sylvatica* subsp. *hibernica* (Lousewort)(Melog y Cŵn). Grassed-over shallow slopes on S side of tiny quarried area on hilltop, 2.4 km N of Llanfynydd, SN/557.302, G. Hutchinson & H.S. Pardoe, 1997, **NMW**, conf. T.C.G. Rich.
- *†134/1/lac. *Dipsacus laciniatus* (Cut-leaved Teasel). c.12 plants on cinders and ballast by main railway line, Pwll, Llanelli, SN/463.007, I.K. Morgan, 1997. First noted by R.D. Pryce in May 1997 but positively identified by IKM in July.
- +135/59/1. *Matricaria recutita* (Scented Mayweed)(Amranwen). Weedy strip in corner of ploughed field, Hafod-neddyn Farm, Llangathen, SN/583.238, Q.O.N. Kay, 1997.
- +†135/80/2. *Galinsoga quadriradiata* (Shaggy-soldier)(Galinsoga Blewog). 1 plant in flower in waste ground at foot of wall outside garden, Tyle Teg, Burry Port, SN/458.010, A. Lewis, 1997. 3rd record.
- +152/16/46a. *Carex viridula* subsp. *brachyrrhyncha* (Long-stalked Yellow-sedge)(Hesgen Felen Baladr Hir). Wet hollow in valley bottom, S side of Afon Ydw, NW of Llwynywormwood, Myddfai, SN/768.318, G. Hutchinson & J. Bevan, 1997, **NMW**.
- *153/12/6. *Festuca arenaria* (Rush-leaved Fescue)(Peisgwellt Brwynddail). Sparse population on seaward *Ammophila arenaria* ridge, Pendine Ranges, Laugharne Burrows, SN/311.071, A.O. Chater, 1997, **NMW**.
- *153/12/8c. *Festuca ovina* subsp. *ophiolicola* (Sheep's-fescue)(Peisgwellt y Defaid). Rocky calcareous grassland, Pal-y-Cwrt, SN/678.182, A.O. Chater *et al.*, 1997.
- +153/18/9. *Poa compressa* (Flattened Meadow-grass)(Gweunwellt Cywasg). Several small populations in semi-vegetated flyash and clinker tip, Burry Port, SN/456.005, R.D. Pryce, 1997.
- +†153/59/3. *Hordeum jubatum* (Foxtail Barley)(Heiddwellt Cribog). 6 plants, mostly only 1 flower head each in seasonally wet area on fly-ash, colonised with *Salix cinerea*.

- Potentilla anserina*, etc., 'Horsebox Pond' Pwll, Llanelli, SN/469.009, R.D. Pryce, 1997.
 +†153/70/pum. *Setaria pumila* (Yellow Bristle-grass)(Cibogwellt Melyu). On lake-side gravel, Sandy Water Park, Llanelli, SN/495.004, I.K. Morgan, 1997, **NMW**, conf. G. Hutchinson. 4th record.
- †158/12/1. *Lilium martagon* (Martagon Lily)(Cap y Twrc). Naturalised for many years in wooded grounds of house, Pilroath, Llangain, SN/372.136, D. Stacey, 1997.
- †160/1/1. *Yucca recurvifolia* (Curved-leaved Spanish-dagger)(Dagr Sbaen Dailardro). Early successional dunes, Tywyn Burrows, c.50 m E of Concrete Road Car Park, SN/377.023, J.N. Davies, 1997. Presumed germinated from drift seeds brought across the Atlantic on the Gulf Stream. More than 6 plants known from Tywyn Burrows in last 20 or so years. Several plants noted from Tywyn Burrows in past – not in Stace's *New Flora*.
- +162/3/4. *Epipactis helleborine* (Broad-leaved Helleborine)(Caldrist Llydanddail). 1 plant only in gravelly car park in woodland, Glyn Abbey, SN/448.079, F. Trimble, 1997.
- 162/13/1. *Platanthera chlorantha* (Greater Butterfly-orchid)(Tegeirian Llydanwyrd). 6 flowering stems in hay meadow, Allt Rhyd-y-Groes NNR, SN/766.482, R.G. Woods, 1997.
- 162/23/3. *Ophrys apifera* (Bee Orchid)(Tegeirian y Gwenyn). Dryish dune slack / meadow with *Ophioglossum vulgatum* locally abundant and *Carex viridula* subsp. *viridula* in vicinity, M.O.D. ranges, Laugharne Burrows, SN/309.071, BSBI meeting, 1997. +3 plants in vegetated fly-ash tip with *Orobanche minor*, Burry Port, SN/454.006, P.A. Jones. 1997. 3 plants with hundreds of dactylorhichs in grassy area at edge of restored open-cast site, Great Mountain Site, Tumble, SN/540.122, J. Price, 1997, 1st inland record.

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

- 17/3/5. *Dryopteris aemula* (Hay-scented Buckler-fern)(Marchredynen Arogfus). 3 small clumps in steep wooded streamside, Pen Rhiw-Felin, Ffynone, SN/235.383, S.B. Evans & D. Lloyd-Thomas, 1997.
- +30/1/6. *Papaver hybridum* (Rough Poppy)(Pabi Pigog). 30-50 plants in corner of arable field adjacent to sea, St Justinian's, St David's, SM/721.254, S. Schofield, 1997. 1st post-1970 record.
- 47/1/6. *Persicaria bistorta* (Common Bistort)(Llys y Neidr). 2 patches on hedgebank on N side of minor road, SN/033.285, A. & B. Barney, 1997.
- 62/34/1. *Brassica oleracea* (Wild Cabbage)(Bresych Gwyllt). 4 plants only on low sheltered corner of limestone sea-cliff, N side of Giltar Point, SR/122.985, S.B. Evans, 1997.
- *†73/1/3. *Crassula helmsii* (New Zealand Pigmyweed)(Corchwyn Seland Newydd). Small patch with abundant *Lemma trisulca* in small pond on slope in woodland, Pwll Dyfrig, Glyn-y-mel, Lower Fishguard, SM/967.371, S.B. Evans *et al.*, 1997.
- +75/28/24. *Sorbus torminalis* (Wild Service-tree)(Cerddinen Folwst). 3 small trees c.6 m high, with suckers, 1 tree flowering, rocky outcrop in woodland, Glyn-y-Garth, Glyn-y-mel, Lower Town, Fishguard, SM/966.369, S.B. Evans *et al.*, 1997.
- *77/7/1e. *Anthyllis vulneraria* cf. subsp. *lapponica* (Kidney Vetch)(Plucen Felen). Seacliff vegetation, E side of Porthclais Harbour, St David's, SM/742.239, Mrs E. Norman, 1997, **NMW**, det. J.R. Akeroyd.
- 133/1/2. *Valerianella carinata* (Keeled-fruited Cornsalad)(Llysiu'r Oen Rhychiog). Straggling mass of plants along 30 m strip, at base of wall, North Farm, Walton East, SN/022.234, J. & G. Hannah, 1997.
- 135/26/3. *Crepis biennis* (Rough Hawk's-beard)(Gwalchlys Garw). 100's of plants up to 2 m high, edge of track on disused railway line now tarred in centre, Cardigan Wildlife Park access route, Cilgerran, SN/184.456, J.W. Donovan, 1997.

- 135/54/1. *Chamaemelum nobile* (Chamomile)(Camri). Tightly grazed turf on reservoir bank by the sea, Lower Treginnis Farm Reservoir, St David's, SM/724.234, R.A. Jones, 1997.
- *†148/2/3. *Lemna trisulca* (Ivy-leaved Duckweed)(Llinad Eiddew). Abundant with small patch of *Crassula helmsii* in shady shallow pond on slope in woodland, Pwll Dyfrig, Glyn-y-mel, Lower Fishguard, SM/967.371, S.B. Evans *et al.*, 1997.
- +152/16/13. *Carex divisa* (Divided Sedge)(Hesgen Ranedig). Inundation margins of shallow island mere, with *Carex arenaria*, N of North Pond, Skokholm, SM/736.052, R. Hobson, 1997, det. A.O. Chater & A.C. Jermy.

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

Research for the new Comital Flora has identified many new, previously unpublished, 1st and 2nd county records which are included below.

- 4/1/4 × 5. *Equisetum × litorale* (*E. fluviatile* × *E. arvense*)(a hybrid Horsetail). Slack W of road, Ynys-las Dunes NNR, SN/608.938, S.P. Chambers, 1997.
- 4/1/4 × 8. *Equisetum × dycei* (*E. fluviatile* × *E. palustre*)(a hybrid Horsetail). In shallow water at N end of Llyn Eiddwen, SN/607.672, A.C. Jermy & A.O. Chater, 1996. Colony 100 × 3 m on leadmine spoil, Esgair Fraith, SN/739.911, A.O. Chater & C.D. Preston, 1996, conf. A.C. Jermy. 2nd & 3rd records.
- 17/3/1. *Dryopteris oreades* (Mountain Male-fern)(Marchredynen Fach y Mynydd). Cliffs above Llyn Llygad Rheidol, SN/790.875, T.D. Dines, 1997.
- 17/3/8 × 9. *Dryopteris × deweveri* (*D. carthusiana* × *D. dilatata*)(a hybrid Buckler-fern). By stream at Esgair Fraith leadmine, SN/742.911, A.C. Jermy & A.O. Chater, 1997. Peaty marsh, NW corner of Cors Fochno, SN/619.922, A.O. Chater & P.A. Smith, 1997, conf. A.C. Jermy. Roadside in conifer plantation 2 km ESE of Cellan, SN/634.479, A.O. Chater & J.P. Woodman, 1997, conf. A.C. Jermy.
- *†20/2/1. *Pseudotsuga menziesii* (Douglas Fir)(Ffynidwydden Douglas). Shingle by Afon Ystwyth 2km W of Ponrhyd-y-groes, SN/720.721, A.O. Chater, 1990. Estate woodland, Coed Ffynnon Caradog, Llangorwen, SN/617.831, A.O. Chater, 1991. 1st & 2nd records.
- *†20/4/1. *Picea sitchensis* (Sitka Spruce)(Spriwsen Sitka). Roadside slopes by plantations, Cwm Einion, SN/695.942, A.O. Chater, 1983. Edge of reservoir by plantations, Llyn Pendam, SN/702.842, A.O. Chater, 1985. 1st & 2nd records; widely naturalised in Cards.
- *†20/4/2. *Picea abies* (Norway Spruce)(Spriwsen Norwy). Roadside banks and plantation, 300 m NW of Panthirion, Brynafan, SN/701.729, A.O. Chater, 1993. Roadside slope by plantation, 1.5 m W of Blaennyherin, SN/785.795, A.O. Chater, 1993. 1st & 2nd records; rarely naturalised.
- *†20/5/2. *Larix kaempferi* (Japanese Larch)(Llarwydden Japan). Roadside verge and slopes by plantations by A44, W of Nantyrarian, SN/709.811, A.O. Chater, 1988. Rocky slopes by plantations, Coed Bwlchgwallter, Hafod, SN/770.717, A.O. Chater, 1993. 1st & 2nd records; widely naturalised.
- *†20/7/2. *Pinus nigra* (Austrian Pine)(Pinwydden Awstria). Edges of mixed plantation, Coed Ty'n-y-garth, Cwm Einion, SN/689.946, A.O. Chater, 1991. Roadside verges by plantations, 800 m ENE of Bryn Llychese, SN/832.810, A.O. Chater, 1993. 1st & 2nd records; widely naturalised.
- *†21/3/1. *Thuja plicata* (Western Red-cedar)(Cedrwyydden Goch). Estate woodland by stream, Tyglyn, Ciliau Aeron, SN/498.598, A.O. Chater, 1992. Slope above railway and in adjacent woodland, Glandyfi, SN/694.968, A.O. Chater, 1995. 1st & 2nd records; widely naturalised.
- *†21/Cry/jap. *Cryptomeria japonica* (Japanese Red-cedar)(Cedrwyydden Goch Japan). Open mixed plantation, Cockshead Wood, 3 km NE of Llangybi, SN/630.554, A.O. Chater, 1996. This plantation has a wide range of regenerating conifers.

- *28/17/4. *Thalictrum minus* (Lesser Meadow-rue)(Arianllys Bach). †Roadside verge and scrub 250 m W of Post Office. Penbontthybeddau, SN/676.836, A.O. Chater, 1992. †Roadside verge on river bank, 50 m E of Pont Tanycastell, Rhydyfelin, SN/589.788, A.O. Chater, 1992. 1st & 2nd records.
- 29/1/1. *Berberis vulgaris* (Barberry)(Eurdrain). Along 5m of roadside hedge between Tan-y-groes and Gorslywd, SN/281.489, A.O. Chater, 1997.
- 30/1/5b. *Papaver dubium* subsp. *lecoqii* (Yellow-juiced Poppy)(Pabi Sudd Melyn). Car park by beach, Llangranog, SN/311.540, A.O. Chater & P. A Smith, 1997.
- *†40/2/3. *Alnus cordata* (Italian Alder). Marshy waste ground NW of Pen-y-bont Bridge, Llanbadarn Fawr, SN/594.804, A.O. Chater, 1997. Now widely planted, but not seen naturalised elsewhere.
- 46/11/2a. *Scleranthus annuus* subsp. *annuus* (Annual Knawel)(Dinodd Blynyddol). Shaley Forestry road 800m SSE. of Pantyfedwen. Strata florida, SN/759.643, I.W. & K. Callen, 1997. Pasture S of Cefn-wig, 2km SE. of Aberaeron, SN/473.613, M.D. Sutton, 1997.
- *†47/1/7. *Persicaria amplexicaulis* (Red Bistort)(Neidrlys Coch). Grassy roadside verge, Upper Borth, SN/607.889, J.E. Halfhide, det. A.J. Silverside, 1977. Hedgebank, Capel Salem graveyard. Brongest, SN/324.450, A.O. Chater, 1997. 1st & 2nd records.
- *47/8/13c. *Rumex crispus* subsp. *uliginosus* (Curled Dock)(Tafol Crych). Edge of tidal ditch, Teifi estuary, Cardigan. SN/1.4. A. Ley, 1885, specimen in **BM**, det. J.R. Akeroyd. Flood terrace, Leri estuary E. of Borth church, SN/616.899, J.R. Akeroyd & A.O. Chater, 1988. 1st & 2nd records.
- 50/1/1. *Elatine hexandra* (Six-stamened Waterwort)(Gwybybyr Chwe Brigerog). Very abundant in 30-year old 4 ha lake, Pant, Llanddewi-Brefi, SN/661.563, A.O. Chater, 1997.
- *†51/1/for. *Hypericum forrestii* (Forrest's Tutsan). Mixed woodland on N bank of Afon Ystwyth, Chwarel Goch, Pontrhyd-y-groes, SN/725.721, A.O. Chater, 1994, det. N.K.B. Robson.
- *61/2/11b x 16. *Salix* x *subsericea* (*S. cinerea* s bsp. *oleifolia* x *S. repens*)(a hybrid Willow). Damp meadow, Peris Brook, Llanon, SN/5.6, J.H. Salter, 1930, specimen in **NMW**, det. R.D. Meikle.
- 62/1/2/3. *Rorippa islandica* (Northern Yellow-cress)(Berwr Melyn y Gogledd). Hollow in shingle by Afon Ystwyth downstream of Pen-y-bont Bridge, Llanilar, SN/618.756, A.C. Williamson & J.P. Lyons, 1997: the 1st record away from the Teifi. Trackside in conifer plantation, Lodge Wood, Lampeter, SN/574.492, A.O. Chater & D.E. Allen, 1997. Abundant around 30-year-old 4 ha lake, Pant, Llanddewi-Brefi, SN/661.563, A.O. Chater, 1997.
- +†62/15/5. *Arabis caucasica* (Garden Arabis)(Arabis yr Ardd). Dense colony c.5 m long on roadside bank opposite house, Bronial, Dihewyd, SN/491.566, A.O. Chater, 1997. Known here for c.20 years.
- 62/2/3 x 5. *Cochlearia danica* x *C. officinalis* (a hybrid Scurvey-grass). Clay slope above beach, Llangranog, SN/311.542, S.P. Chambers, 1997.
- 62/28/1. *Thlaspi arvense* (Field Penny-cress). Headland of barley field N of Penallt-y-gwin, Betws Ifan. SN/304.464, A.O. Chater, 1997.
- *62/33/1. *Diplotaxis tenuifolia* (Perennial Wall-rocket)(Cedw Meindwf y Tywod). Waste ground 500 m SE of Aberystwyth Station. SN/588.811, A.O. Chater, 1997.
- +72/2/6. *Ribes alpinum* (Mountain Currant)(Rhyfon Mynydd). Dominant in hedges 2 km NNE of Llandyfriog, SN/339.434, A.O. Chater, 1996.
- +†73/1/3. *Crassula helmsii* (New Zealand Pigmyweed)(Corchwyn Seland Newydd). Recent pond 300 m NW of Pontrhydfendigaid, SN/727.670, H. Harries, 1997. Swampy pond in Forestry Commission plantation, Black Covert, Trawsgoed, SN/668.726, A.O. Chater, 1997. Two patches at E side of Llyn yr Oerfa, SN/728.798, A.O. Chater & R.A. Jones. In the latter two sites the colonies are clearly the result of misguided dumpings from garden ponds or aquaria.

- *†74/5/9. *Saxifraga spathularis* (St Patrick's Cabbage)(Tormaen St Padrig). Mixed woodland, Plas Einion, Furnace, SN/684.948, A.O. Chater, 1991.
- +†74/7/1. *Tolmiea menziesii* (Pick-a-back-plant)(Crudlys). Shaded riverbank, Sandbanks Wood, Highmead, SN/504.428, A.O. Chater & J.P. Woodman, 1997.
- *†75/3/2 × 3. *Spiraea* × *billardii* (*S. alba* × *douglasii*)(Billard's Bridewort). Hedges by road at N end of Ponthirwaun, SN/262.452, A.O. Chater, 1980, det. A.J. Silverside. Widely planted and naturalised in hedges.
- *†75/3/3a. *Spiraea douglasii* subsp. *douglasii* (Steeple-bush). Scrub, Ty'n-y-garth, Cwm Einion, SN/691.945, A.O. Chater, 1991. Roadside hedges, 100 m S of Pwll-y-whil, Pontgarreg, SN/352.540, A.O. Chater, 1992. 1st & 2nd records.
- *†75/3/can × tri. *Spiraea* × *vanhouttei* (*S. cantoniensis* × *S. trilobata*)(Van Houtte's Spiraea). Roadside hedges SW of Neuadd-lwyd chapel, 3.5 km SSE of Aberaeron, SN/473.595, A.O. Chater, 1997.
- *75/8/92. *Rubus boudiccaae* (a bramble). Roadside scrub 200 m N of Warren farm, Penparc, SN/201.477, D.E. Allen & A.O. Chater, 1996, conf. A. Newton.
- *75/8/169. *Rubus fuscicortex* (a bramble). Llyfnant Valley, SN/7.9 or 6.9, W.C. Barton, 1923, specimen in **BM**, conf. D.E. Allen.
- *75/8/176. *Rubus aequalidens* (a bramble). Track verge in conifers. Long Wood, Llangybi, SN/610.515, D.E. Allen & A.O. Chater, 1996, conf. A. Newton.
- *75/8/197. *Rubus norvicensis* (a bramble). Wood 300 m SSW of Capel Dewi church, SN/451.421, D.E. Allen & A.O. Chater, 1996, conf. A. Newton. This predominantly East Anglian species was also found about 1 km away at SN/444.407.
- *75/8/315. *Rubus pruinosis* (a bramble). Disused railway embankment, Trawsgoed, SN/663.733, D.E. Allen & A.O. Chater, 1997, det. D.E. Allen.
- *75/8/per. *Rubus percrispus* (a bramble). Laneside hedge 300 m WSW of Bryneithyn, Llanfarian, SN/579.780, D.E. Allen & A.O. Chater, 1997, det. D.E. Allen.
- 75/19/10b. *Alchemilla filicaulis* subsp. *vestita* (Hairy Lady's-mantle)(Mantell Ffair Flewog). Damp pasture SW of Beddgeraint, Brongest, SN/317.462, M.D. Sutton, 1996. 3rd record.
- *†75/22/13. *Prunus lusitanica* (Portugal Laurel)(Llawr-sirianen Portiwgal). Estate woodland, Llanerchaeron, SN/480.602, A.O. Chater, 1982. Mixed woodland. Coed Penglanowen, Nanteos, SN/610.786, A.O. Chater, 1992. 1st & 2nd records; widely naturalised throughout Cards.
- +†75/32/35. *Cotoneaster rehderi* (Bullate Cotoneaster). Self-sown on roadside bank SW of Ponthryd-y-groes, SN/735.720. S.P. Chambers, 1977.
- †75/32/40. *Cotoneaster sternianus* (Stern's Cotoneaster). Self-sown on roadside bank NE of Pennant crossroads, SN/518.639, A.O. Chater, 1997.
- 77/14/2. *Vicia lathyroides* (Spring Vetch)(Ffugbysen y Gwanwyn). Steep dry slope W of Clogfryn, Aberaeron, SN/446.621, J.P. Woodman, A.O. Chater & M.D. Sutton., 1997.
- 77/16/4a. *Ononis repens* subsp. *repens* (Common Restharrow)(Tagaradr). Pasture NE of Hafodygofaint-isaf, Ty'n-y-graig, SN/703.691, M.D. Sutton, 1997. The furthest inland site in Cards.
- *77/16/4b. *Ononis repens* subsp. *maritima* (Common Restharrow)(Tagaradr). Dune at S end of Tan-y-bwlch Beach, Aberystwyth, SN/579.798, A.O. Chater, 1996, det. P.D. Sell. Sandy slope above sea, Traeth y Mwnt, SN/194.519, A.O. Chater, 1996. 1st & 2nd records.
- 77/19/1. *Trifolium ornithopodioides* (Bird's-foot Clover)(Corfeillionen Wen). Disturbed shaley ground, RAE site, Aber-porth, SN/242.524, S.P. Chambers & BSBI Field Meeting, 1997. Disused quarry, Constitution Hill, Aberystwyth, SN/584.827, S.P. Chambers, 1997.
- *84/1/2 × 3. *Epilobium* × *limosum* (*E. parviflorum* × *montanum*)(a hybrid Willowherb). Hedgebank, Clawdd-moel, Temple Bar, SN/531.531, A.O. Chater, 1996, conf. G. Kitchener.

- *84/1/3 × 6. *Epilobium ciliatum* × *obscurum* (a hybrid Willowherb). Felled conifer plantation, Lodge Park, Tre'r-ddol, SN/662.931, A.O. Chater, 1997. Widespread throughout Cards.
- *84/6/2. *Circaea alpina* (Alpine Enchanter's-nightshade)(Llysian Steffan Mynyddig). Wooded ravine of Llyfnant stream 200 m W of Cwmrhaidr, SN/752.962, A.O. Chater & T.D. Dines, 1997, conf. P.M. Benoit. Though recorded by Salter from this valley, his record has been assumed by Raven and others, perhaps mistakenly it might now seem, to be of *C. × intermedia*.
- 91/2/10. *Euphorbia exigua* (Dwarf Spurge)(Fflamgoed Fach yr Yd). Disturbed shaley ground, RAE Site, Aber-porth, SN/243.524, J. Turner & BSBI Field Meeting, 1997. The 1st sighting at the RAE Site since 1979.
- *†91/2/16b. *Euphorbia amygdaloides* subsp. *robbiae* (Leathery Wood-spurge). Roadside hedgebank S. of Upper Bridge, Aberaeron, SN/458.623, A.O. Chater, 1996. Woodland just W of Cymerau Hall, Glandyfi, SN/696.962, S.P. Chambers, 1996. 1st & 2nd records.
- *†100/1/1. *Rhus typhina* (Stag's-horn Sumach). Thicket of suckers in paddock, Penrhyncoch, SN/646.842, A.O. Chater, 1997. Often suckering from gardens onto roadside verges, but here very well naturalised.
- *†103/1/1 × 2. *Geranium × oxontanum* (*G. endressii* × *G. versicolor*)(Druce's Cranes-bill). Streambank by churchyard, Llanilar, SN/623/751, A.O. Chater & S.P. Chambers, 1994.
- 103/1/15. *Geranium pusillum* (Small-flowered Crane's-bill)(Pig yr Aran Manflodeuog). Sandy swede field, Nantferwig, SN/168.482, A.O. Chater, 1997. 2nd extant record.
- *†103/1/17. *Geranium macrorrhizum* (Rock Crane's-bill). Footpath verge, SE of National Library, Aberystwyth, SN/595.814, A.O. Chater, 1992. *Salix cinerea* scrub, 200 m NW of Cross Inn, SN/542.642, A.O. Chater, 1997. 1st & 2nd records.
- *105/1/1. *Impatiens noli-tangere* (Touch-me-not Balsam)(Ffromyls). In a gully at Capel Bangor, SN/6.7. C. Morley, 1939, in ms. notebook, Ipswich Museum, per A.P. Fowles. A recent search of all the likely sites that this record may refer to been unsuccessful; Morley was an entomologist and very familiar with the species.
- *†106/1/1. *Hedera colchica* (Persian Ivy). Scrub and wood, Caerhedyn, Llyfnant, SN/709.974, A.O. Chater, 1997.
- *†107/4/1/2. *Heracleum mantegazzianum* (Giant hogweed)(Efwr Enfawr). Naturalised for c.27 years, farmyard, Ynys Edwin, Eglwys-fach, SN/678.962, A.O. Chater & W.M. Condry, 1997.
- *†110/8/7. *Solanum tuberosum* (Potato)(Taten). Naturalised for at least 5 years in gully on sea cliffs, originating from throwouts from neighbouring field, 300 m ENE of Mwn't church, SN/198.521, A. O. Chater, 1997.
- 117/1/1. *Verbena officinalis* (Vervain)(Briw'r March). Waste ground above Cribach Bay, RAE Site, Aber-porth, SN/250.519, A.O. Chater, 1997. Disused railway embankment, Teifi marshes Reserve, Cardigan, SN/186.456, D. Reed, 1995.
- *†118/23/3 × 4. *Mentha × villosa* (*M. suaveolens* × *M. spicata*)(Apple mint)(Mintys Lled-gryn-ddail). Scrub above coast path, W end of Tresaith beach, SN/277.514, A.O. Chater, 1994.
- 118/18/4. *Clinopodium vulgare* (Wild Basil)(Brenhinllys Gwylt). Laneside hedgebank, NNE of Dol-goch, Brongest, SN/318.450, A.N.G. Fordham, A.O. Chater & J.P. Woodman. Recently cleared scrub slope, 200 m SE of Carreg Wynt, Aber-porth, SN/235.519, J.P. Woodman & A.O. Chater, 1997.
- 121/2/1. *Littorella uniflora* (Shoreweed)(Beistonnell). SW. arm of Llyn Brianne, SN/784.492, A.O. Chater & D. Davies, 1997. One of the very few aquatics to be colonising this huge reservoir.
- +†124/16/25. *Veronica longifolia* (Garden Speedwell). Rough grass by long-overgrown tip, Blaendolau, Llanbadarn Fawr, SN/600.804, A.O. Chater, 1990.
- *124/20/9 × 19. *Euphrasia confusa* × *E. scottica* (a hybrid Eyebright). Flush by drainage adit, Cwmystwyth leadmine, SN/810.751, S.P. Chambers, 1992, det. A.J. Silverside.

- 125/2/2. *Orobancha rapum-genistae* (Greater Broomrape)(Gorffac Mwyaf). Among gorse, WSW of Rhydyrwhiad, Nanternis, SN/379.563, M.D. Sutton, 1997; also nearby at SN/359.574 and 359.567.
- 130/6/3. *Galium uliginosum* (Fen Bedstraw)(Briwydden y Fign). Flushed slope W of Llyn Gwngu, SN/837.728, J.P. Woodman & A.O. Chater, 1997. 2nd extant site, and the only upland one.
- 130/6/6. *Galium verum* (Lady's Bedstraw)(Briwydden Felen). Among *Molinia* and *Nardus* in valley mire 800 m ENE of Hafodygofaint-isaf, Ty'n-y-graig, SN/708.692, M.D. Sutton, 1997, and several other inland sites in this part of the v.c.
- 130/6/7b. *Galium mollugo* subsp. *erectum* (Upright Hedge-bedstraw)(Briwydden Syth). Hay meadow N of Pantyffynnon, Ffair-rhos, SN/748.679, M.D. Sutton, 1997.
- *+131/1.4. *Sambucus ebulus* (Dwarf Elder)(Ysgawen Fair). Waste ground, Picton Terrace, New Quay, SN/388.600, R.E.N. Smith, 1997. Only extant site; first recorded here by S.R. Turner, in litt. to P.M. Benoit in 1978.
- *+131/6/6. *Lonicera japonica* (Japanese Honeysuckle). Scrub by old allotments, Felin-y-mor Road, Aberystwyth, SN/581.805, A.O. Chater, 1994. Scrub on riverbank W of Llansantffraed church, SN/511.674, A.O. Chater & J.P. Woodman, 1997. 1st & 2nd records.
- +†133/2/phu. *Valeriana phu* (a Valerian). Roadside hedgebank 100 m SW of Neuadd-lwyd chapel, 3.5 km SSE of Aberaeron, SN/473.595, A.O. Chater, 1997. Roadside bank 850 m NNE of Dihewyd, SN/491.566, A.O. Chater & J.P. Woodman, 1997. Only extant localities in Britain; it was last seen at its only previous site, Mydroilyn, in the same area, in about 1958.
- *135/26/3. *Crepis biennis* (Rough Hawk's-beard)(Gwalchlys Garw). Abundant on roadside and field banks 500 m SE of Glynarthen, SN/313.482, A.O. Chater, 1997.
- *135/27/6b x 2. *Pilosella* x *stoloniflora* (*P. aurantiaca* subsp. *carpathicola* x *P. officinarum* subsp. *euronota*)(a hybrid Mouse-ear-hawkweed). E part of chapel graveyard, Tan-y-groes, SN/284.493, A.O. Chater, 1997, det. P.D. Sell. This population agrees with subsp. *schuriana* Naegeli & Peter and appears to be the first record for Britain for this nothomorph.
- 135/30/1. *Filago vulgaris* (Common Cudweed)(Edafeddog). Dry bank by road, RAE Site, Aber-porth, SN/251.516, A.O. Chater, 1997. 2nd extant locality.
- *†135/66/com x lax. *Brachyglottis* 'Sunshine' (*B. compacta* x *B. laxifolia*)(Shrub Ragwort). Gully on sea cliffs below Grogal, W of New Quay, SN/373.593, A.O. Chater & A.P. Fowles, 1989, conf. D.H. Kent.
- *†138/6/1. *Lagarosiphon major* (Curly Waterweed)(Pib-flodyn Crych). In two ponds in grounds of Ffynnon Berw, 1 km NNW of Ffynnonddewi, SN/381.538, A.O. Chater, 1994. Becoming widely naturalised in ponds.
- 152/5/1. *Scirpus sylvaticus* (Wood Club-rush)(Clwbfrwynen y Coed). Flushed slope in wood by Afon Aeron upstream of Pont Gou, Blaenpennal, SN/630.635, A.O. Chater & M.D. Sutton, 1997.
- 152/8/2. *Isolepis cernua* (Slender Club-rush)(Clwbfrwynen Eiddil). Field NE of Ffosybont-bren, Llanilar, SN/614.739, A.C. Wilkinson, 1997. One of only three inland records.
- 152/16/24. *Carex lasiocarpa* (Slender Sedge)(Hesgen Fain). Fringing much of W side of Llyn Gwngu, SN/837.729, A.O. Chater & J.P. Woodman, 1997. Several colonies by headwaters of Nant Dderwen, 1.5 km ENE of Llyn Gwngu, SN/853.737, A.O. Chater & J.P. Woodman, 1997.
- 152/16/59a. *Carex magellanica* (Tall Bog-sedge)(Hesgen Eurwerdd Lefn). Scattered throughout 4 ha mire in conifer plantation 1 km E of Llyn Rhuddnant, SN/816.782, C.A. Small & T. Teearu, conf. A.O. Chater.
- *153/12/7b. *Festuca rubra* subsp. *junceae* (Red Fescue)(Peisgwellt Coch). Storm beach W of road, Tan-y-bwlch Beach, Aberystwyth, SN/579.805, S.P. Chambers, 1994, det. C.A.

- Stace. Rocky sea cliff, NNW side of Foel y Mwnt, SN/192.521, A.O. Chater, 1994. 1st & 2nd records; widespread along the coast.
- *153/13/7c. *Festuca rubra* subsp. *litoralis* (Red Fescue)(Peisgwellt Coch). Saltmarsh E of Afon Leri, Ynys-ias, SN/616.930, A.O. Chater, 1993. Saltmarsh, Teifi estuary, 1 km S of Nantyerwig, SN/168.480, A.O. Chater, 1997. 1st & 2nd records; widespread in saltmarshes.
- *153/12/7g. *Festuca rubra* subsp. *megastachys* (Red Fescue)(Peisgwellt Coch). Grassy slope in village, Ponterwyd, SN/751.807, A.O. Chater, 1988, det. A.K. Al-Bermani. Laneside verge just N of Pont Pant-mawr, 2 km WNW of Llanilar, SN/607.757, A.O. Chater, 1992. 1st & 2nd records.
- 153/16/2a. *Puccinellia distans* subsp. *distans* (Reflexed Saltmarsh-grass)(Gweunwellt Gwrthblygedigaudd). Saltmarsh behind S end of Tan-y-bwlch beach, Aberystwyth, SN/578.796, A.O. Chater, 1997.
- 153/30/1. *Trisetum flavescens* (Yellow Oat-grass)(Ceirchwellt Melyn). Llansantffraed churchyard, SN/512.675. S.P. Chambers, 1997. Pasture NE of Mount Pleasant, Lampeter, SN/586.492, S. Kerry, 1997. Grassland at E. corner of RAE Site, Aber-porth, SN/253.518, A.O. Chater & BSBI Field Meeting, 1997.
- *†153/30/1pur. *Trisetum flavescens* subsp. *purpurascens* (Yellow Oat-grass)(Ceirchwellt Melyn). Grassy slope by pond. Gwern-medd, Llangoedmor, SN/213.454, A.O. Chater & L. Gander, 1997. Available in amenity seed-mixtures and appearing in several parts of Britain.
- 153/39/1 × 4. *Agrostis* × *murbeckii* (*A. capillaris* × *A. stolonifera*)(a hybrid Bent). River shingle by Afon Ystwyth downstream of road bridge, Llanfarian, SN/589.777, S.P. Chambers, 1997. 2nd record.
- 153/54/1. *Brachypodium pinnatum* (Tor Grass)(Breichwellt y Twr). Frequent in rough pasture SW of Craig y Filain, Aber-porth, SN/236.521, J.P. Woodman & A.O. Chater, 1997. Apart from one patch nearby in the RAE Site, the only population in a semi-natural habitat in Cards.
- *†153/62/ric. *Cortaderia richardii* (Early Pampas-grass). Gorse slope above tip, Pendinas, Aberystwyth, SN/584.799, A.O. Chater, 1993. Streambank 100 m S of Ynys-hir bridge, Eglwys-fach, SN/684.956, P. Condry, 1995, det. A.O. Chater. 1st & 2nd records. This gynodioecious species self-sows very freely in gardens.
- *†158/6/2. *Kniphofia praecox* (Greater Red-hot-poker). Scrub on streambank W of bridge by Llansantffraed church, SN/512.674, S.P. Chambers, 1997.
- *158/20/2 × 3. *Hyacinthoides hispanica* × *H. non-scripta* (a hybrid Bluebell). Scrub slope above church hall, Llanbadarn Fawr, SN/598.810, S.P. Chambers & A.O. Chater, 1991. Widespread in Cards, where *H. hispanica* is also commonly naturalised.
- *†158/23/1. *Muscari neglectum* (Grape-hyacinth)(Clychau Du-ias). Grassy roadside slope, Fron-deg, Llanbadarn Fawr, SN/600.811, A.O. Chater, 1993. Scrub slope above church hall, Llanbadarn Fawr, SN/598.810, S.P. Chambers, 1997. 1st & 2nd records.
- *†158/23/2. *Muscari armeniacum* (Garden Grape-hyacinth)(Clychu Glas yr Ardd). Grassy roadside verge, road to Upper Forest, Lampeter, SN/576.490, A.O. Chater, 1992. Copse by Primrose Hill, Llanbadarn Fawr, SN/600.811, A.O. Chater, 1993. 1st & 2nd records.
- *†158/32/1 × 3. *Galanthus nivalis* × *G. plicatus* (a hybrid Snowdrop). Damp grassland, Aberstringell limekiln, Llanrhystud, SN/519.684, A.O. Chater, 1995.
- *†158/33/1 × 6. *Narcissus tazetta* × *N. cyclamineus* (a hybrid Daffodil). Scrub on streambank by Llansantffraed church, SN/513.674, A.O. Chater, 1995.
- *†158/33/3a. *Narcissus poeticus* subsp. *poeticus* (Pheasant's-eye Daffodil)(Gylfinog Barddol). Copse NW of Ffosdygaled, Chancery, SN/578.765, A.O. Chater, 1994. +Roadside bank at NE end of Llwynceilyn, SN/443.598, A.O. Chater, 1995. 1st & 2nd records.
- *†158/33/3b. *Narcissus poeticus* subsp. *radiiflorus* (Pheasant's-eye Daffodil)(Gylfinog Barddol). Abundant under trees 100 m E of Lovesgrove mansion, SN/629.816,

- A.O. Chater, 1995. +Hedgebank of road by Tanycastell, Llanychaiarn, SN/588.788. A.O. Chater, 1994. 1st & 2nd records.
- *†158/33/3 × 5. *Narcissus × incomparabilis* (*N. poeticus* × *N. pseudonarcissus*)(Nonesuch Daffodil). Wooded streambank 200 m W of Coed Wileirog, Wallog, SN/601.854. A.O. Chater, 1992.
- *†158/33/3 × mos. *Narcissus × boutignyanus* (*N. poeticus* × *N. moschatus*)(a hybrid Daffodil). Scrub slope W. of church, Llanbadarn Fawr, SN/598.810, S.P. Chambers & A.O. Chater, 1997.
- *†58/33/5c. *Narcissus pseudonarcissus* subsp. *major* (Spanish Daffodil)(Cenhinen Sbaen). Sand dunes by N end of road, Ynys-las Dunes NNR, SN/611.940, A.O. Chater, 1993. Marshy scrub 200 m S of Felin Geri, Cwm Cou, SN/300.421, A.O. Chater, 1994. 1st & 2nd records.
- *†158/33/6 × 3. *Narcissus cyclamineus* × *N. poeticus* (a hybrid Daffodil). Roadside verge 100 m N of church, Maestir, SN/553.493, A.O. Chater, 1994.
- *†158/33/6 × 5. *Narcissus × monochromus* (*N. cyclamineus* × *N. pseudonarcissus*)(a hybrid Daffodil). Scrub by old cottage site 100 m E of Cwmtudu, SN/357.575. A.O. Chater, 1994.
- *†158/33/6 × mos. *Narcissus cyclamineus* × *N. moschatus* (*N. × dichromus*)(a hybrid Daffodil). Grassy paddock, Llangorwen, SN/601.839, A.O. Chater, 1993.
- *†158/33/3 × his. *Narcissus × bernardii* (*N. poeticus* × *N. hispanicus*)(a hybrid Daffodil). Roadside hedgebank, Tanycastell, Rhydyfelin, SN/588.788. A.O. Chater, 1994.
- *†158/33/bic. *Narcissus bicolor* (a Daffodil). Ash wood SW of Pen-y-wern, New Cross, SN/636.765, A.O. Chater, 1994. Mixed woodland on ridge E of Crugiau, Rhydyfelin, SN/592.794, A.O. Chater, 1996. 1st & 2nd records.
- *†158/33/mos. *Narcissus moschatus* (a Daffodil). Rocky mound under trees between Bethel chapel graveyard and road, Capel Dewi, SN/449.423, A.O. Chater, 1995.
- *†158/33/nob. *Narcissus nobilis* (a Daffodil). Scrub slope below Bangor Teifi churchyard, SN/376.403, A.O. Chater, 1994. Mixed woodland on ridge E of Crugiau, Rhydyfelin, SN/592.794, A.O. Chater, 1994. 1st & 2nd records.
- *†159/8/6. *Crocus chrysanthus* (Golden Crocus). Rough grass in SE corner of Llanafan churchyard, SN/685.721, A.O. Chater, 1997.
- *†159/8/7 × ang. *Crocus × stellaris* (*C. flavus* × *C. angustifolius*)(a hybrid Crocus). Roadside verge 400 m NNW of Moelifer, Llanrhystud, SN/548.710, A.O. Chater, 1997.
- 162/10/1. *Hammarbya paludosa* (Bog Orchid)(Gefell-lys y Gors). 3 plants in flush 300 m ESE of Soar y Mynydd, SN/787.531, A.O. Chater, 1997. 38 plants in mire NNE of Alltgochymynydd, Cyneiniog valley, SN/708.883, A.O. Chater, 1997.
- 162/17/1. *Coeloglossum viride* (Frog Orchid)(Llys Ysgyfarnog). Goat-grazed pasture above Llanfair Clydogau, SN/6.5, A.O. Chater, 1997.
- 162/203. *Orchis morio* (Green-winged Orchid)(Tegeirian y Waun). Chapel graveyard 2.5 km S of Blaenannerch, SN/242.466, J. Steer, 1997.

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

- *9/1/1. *Pitularia globulifera* (Pillwort)(Pelenllys). Shallow water (c.30 cm) with *Juncus bulbosus*, *J. kochii* & *Littorella uniflora*, Llyn Gwyddior, SH/937.074, R.A. Jones & T. Teearu; Extensive colony in lake at 1.6 m depth, Llyn Gwyddior, SH/935.074, E.J. Lomas; Small colony on lake-edge, Llyn Gwyddior, SH/935.076, T. Teearu, all 1997. 1st & 2nd recent records.
- *15/2/6. *Asplenium viride* (Green Spleenwort)(Duegredynen Werdd). In crevices on vertical rock face in rocky stream gorge, Lake Vyrnwy, SH/996.205, P. Parker, 1997, **NMW**, det. P.M. Benoit.

- +†21/3/1. *Thuja plicata* (Western Red-cedar)(Cedrwyllydd Goch). Nr bridge over Afon Hirddu, Lake Vyrnwy, SH/974.213, J. Clarke, 1997. Regeneration observed.
- 45/3/1a. *Montia fontana* subsp. *fontana* (Blinks)(Gwlyddyn y Ffynnon). Short turf, Dugwm Roacks, SO/05.84, I.C. Trueman, 1997.
- *47/8/10 × 14. *Rumex* × *digeneus* (*R. hydrolapathum* × *R. conglomeratus*). Rare in Montgomery Canal nr Arddlin, SJ/265.165, R. Lansdown, 1997, **RNG**, conf. J.R. Akeroyd.
- *47/8/10 × 19. *Rumex* × *lingulatus* (*R. hydrolapathum* × *R. obtusifolius*). Rare in Guilsfield Arm of Montgomery Canal SSSI, SJ/239.133, R. Lansdown, 1997, a similar plant from Shropshire part of canal conf. J.R. Akeroyd.
- +61/2/16. *Salix repens* (Creeping Willow)(Corhelygen). Damp lake margin with *Calluna*, *Molinia* and *Sphagnum*, Llyn Gwyddior, SH/938.074, T. Teearu, 1997, conf. R.D. Meikle. 1st recent record.
- *†65/2/2. *Rhododendron luteum* (Yellow Azalea)(Rhododendron Melyn). Steep side of Afon Hirddu and roadside, Lake Vyrnwy, SH/974.213, J. Clarke, 1997.
- 75/6/1. *Filipendula vulgaris* (Dropwort)(Crogedyf). Drought-prone grassland on steep S-facing slope, Breidden Hill, SJ/291.138, S.L. Smith & D. Guest, 1997.
- 84/6/2. *Circaea alpina* (Alpine Enchanter's-nightshade)(Llyisiau Steffan Mynyddig). 2 colonies on E facing slope under *Corylus/Fraxinus* canopy, in ravine of Afon Llyfnant, SN/752.962, A.O. Chater & W.M. Condry, 1997, conf. P.M. Benoit.
- *†106/1/1. *Hedera colchica* var. *dentata* (Persian Ivy). Scrambling up lakeside bank and trees, Lake Vyrnwy, SH/962.222, J. Clarke, 1997, det. A. Rutherford.
- 111/3/2b. *Calystegia sepium* subsp. *roseata* (Pink Hedge Bindweed)(Tagllys Mawr). Abundant on both sides of the v.c. boundary in a *Phragmites* reedbed, S of Dovey Junction station. SN/696.976, A. O. Chater, 1997, **NMW**.
- +†124/4/1. *Mimulus moschatatus* (Musk)(Mwsg). 20 flowers visible in one clump, margin of Montgomery Canal at Garthmyl, SO/186.982, C.A. Small, 1997.
- +†35/26/3. *Crepis biennis* (Rough Hawk's-beard)(Gwalchlys Garw). Semi-improved neutral grassland, Gweunydd Ty-Brith SSSI and Nature Reserve, Deuddwr, SJ/243.178, S.L. Smith & D. Guest, 1997. 2nd record.
- *†138/2/1. *Stratiotes aloides* (Water-soldier)(Alaw Diosgo). Over 30 plants in a short stretch of the Montgomery Canal, Walls Bridge, Llanymynech, SJ/262.208, M. Rogers, 1997. Probably originally introduced by dumping.

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

- +†20/1/2. *Abies grandis* (Giant Fir)(Ffynidwydden Fawr). Roadside, Bettws-y-Coed, SH/78.53, J.A. Green, 1997.
- +†20/2/1. *Pseudotsuga menziesii* (Douglas Fir)(Ffynidwydden Douglas). Probably planted on roadside, Bettws-y-Coed, SH/78.53, J.A. Green, 1997.
- +†20/4/1. *Picea sitchensis* (Sitka Spruce)(Spriwsen Sitka). Self-sown in Forestry Commission plantation, Dolwyddelan, SH/73.50, W. McCarthy, 1997.
- +†20/4/2. *Picea abies* (Norway Spruce)(Spriwsen Norwy). +Probably planted at edge of woodland, nr Tudweiliog, SH/23.36, G. & I. Battershall, 1997. +Roadside, Bettws-y-Coed, SH/78.53, J.A. Green, 1997.
- +†20/7/3. *Pinus contorta* (Lodgepole Pine)(Pinwydden Gamfrig). Probably planted on dunes at Morfa Bychan, Porthmadog, SH/52.37, BSBI meeting, 1997.
- +†20/7/5. *Pinus radiata* (Monterey Pine)(Pinwydden Monterey). +Edge of golf course, Porthmadog, SH/548.368, G. Battershall, 1996. +6 trees, probably planted at edge of campsite, Morfa Dinlle nr Caernarfon, SH/44.58, G. & I. Battershall, 1997.
- +†20/7/6. *Pinus strobus* (Weymouth Pine)(Pinwydden Wen). Probably planted on roadside, Bettws-y-Coed, SH/78.53, J.A. Green, 1997.

- *†20A/Cry/jap. *Cryptomeria japonica* (Japanese Red-cedar)(Cedrzydden Goch Japan). Probably planted on roadside, Bettws-y-Coed, SH/78.53, J.A. Green, 1997.
- +†21/3/1. *Thuja plicata* (Western Red-cedar)(Cedrzydden Goch). Probably planted on roadside, Bettws-y-Coed, SH/78.53, J.A. Green, 1997.
- *†28/5/1. *Nigella damascena* (Love-in-a-mist). Waste ground nr railway station, Llandudno, SH/78.81, W. McCarthy, 1997.
- +28/6/1. *Aconitum napellus* (Monk's-hood)(Cwewll y Mynach). †Roadside, Lon Las, Penygroes, SH/47.52, D. Jones, 1990.
- +28/6/1 × var. *Aconitum* × *cammarum* (*A. napellus* × *A. variegatum*)(Hybrid Monk's-hood). Edge of field at least 400m from habitation, Caeathro nr Caernarfon, SH/49.61, G. & I. Battershall, 1996.
- *†28/9/bla. *Anemone blanda* (Balkan Anemone). Naturalised on roadside, Bodafon Lane, Llandudno, SH/80.81, W. McCarthy, 1997.
- +28/13/25a. *Ranunculus penicillatus* subsp. *penicillatus* (Stream Water-crowfoot)(Crafanc y Nant). +Stream, Afon Dwyfach, Pant Glas, nr Llanllyfni, SH/46.47; +Stream, Afon Llyfni, Pontllyfni, SH/43.52, both G. & I. Battershall, 1997.
- +†30/1/3. *Papaver somniferum* (Opium Poppy)(Cwsglys). + Roadside, Morfa Bychan, Porthmadog, SH/53.37, BSBI meeting; +Roadside, Bethesda, SH/62.69, J. Hawksford; +Disturbed gravel nr beach, Aber. SH/64.73, W. McCarthy, all 1997.
- +31/3/1. *Pseudofumaria lutea* (Yellow Corydalis)(Mwg y Ddaear Melyn). Base of wall, Tudweiliog, SH/23.36, G. Battershall *et al.*, 1996.
- +†36/3/1. *Soleirolia soleirolii* (Mind-your-own-business)(Mam Miloedd). Pavement cracks, Plas yn Rhiw, Rhiw, SH/23.28, G. & I. Battershall, 1997.
- +†42/8/2. *Carpobrotus edulis* (Hottentot-fig)(Ffigysen Felen). Low sandy dunes, nr Llanbedrog, SH/32.30, M. Atkinson, 1997.
- +†46/7/2×3. *Cerastium arvense* × *C. tomentosum* (?*Cerastium* × *maueri*)(a hybrid mouse-ear). Naturalised in grassland, Bryn Pydew NR, nr Colwyn Bay, SH/81.79, G. Battershall, 1997, 2nd record.
- *†46/18/1. *Lychnis coronaria* (Rose Champion)(Lluglys Gwridog). Naturalised by footpath, Wellington nr Llanbedrog, SH/30.30, BSBI meeting, 1997.
- +†47/1/3. *Persicaria wallichii* (Himalayan Knotweed)(Clymog yr Himalaya). Waste ground, Caernarfon, SH/47.63, G. & I. Battershall, 1996.
- +47/1/16. *Persicaria minor* (Small Water-pepper)(Clymog Bychan). Numerous scattered plants intermixed with *P. hydropiper* in marshy ground on ox-bow, 1 km NNW of Llanrwst, SH/79.62, R. Lewis, 1997.
- *†47/1/cap. *Persicaria capitata* (Pink-headed Knotweed). +Pavement cracks, Abersoch, SH/31.28 and Criccieth, SH/501.380, J. Hawksford, 1997. 1st records.
- +†47/5/2. *Fallopia sachalinensis* (Giant Knotweed)(Clymog Sachalin). Streamside, Glynllifon Woods, nr Llandwrog, SH/40.55, G. & I. Battershall, 1997.
- *47/8/13b. *Rumex crispus* subsp. *littoreus* (Curled Dock)(Tafol Crych). +Sea-shore, Morfa Nefyn, SH/29.40; +Sea-shore, Abersoch, SH/31.28; +Waste ground by sea-shore, Pwllheli, SH/37.34; +Beach, Criccieth, SH/49.37, all J. Hawksford, 1997.
- +47/8/18. *Rumex pulcher* (Fiddle Dock)(Tafol Crwth-ddail). Short herbaceous grass area, Nant Gwrtheyrn, SH/34.44, M. & A. Atkinson, 1997.
- *†51/1/3 × 4. *Hypericum* × *inodorum* (*H. androsaemum* × *H. hircinum*)(Tall Tutsan)(Eurinllys Tal). Old quarry, Llangystennin nr Colwyn Bay, SH/82.79, G. Battershall & W. McCarthy, 1997.
- +53/1/7. *Malva neglecta* (Dwarf Mallow)(Hocys Bychan). Farmyard, Llanfairfechan, SH/69.74, G. & I. Battershall, 1996.
- +55/1/3. *Drosera intermedia* (Oblong-leaved Sundew)(Gwlithlys Hirddail). On peat in a bog, Cors Geirch, SH/31.35, L. Colley & D. Jones, 1995.
- +61/2/4. *Salix triandra* (Almond Willow)(Helygen Grigwryw). Waste ground, Pen-y-groes, SH/47.52, G. & I. Battershall, 1996.

- +†62/17/1. *Lunaria annua* (Honesty)(Swllt Dyn Tlawd). Recorded from the following squares in 1996: SH/48.59; SH/56.37; and in 1997: SH/31.26; SH/30.30; SH/61.68.
- +62/30/2. *Leptidium campestre* (Field Pepperwort)(Codywasg y Maes). Waste ground, Porthmadog, SH/57.38, J. Clarke & A. Franks, 1997.
- *†65/8/1. *Gaultheria shallon* (Shallon)(Sialon). Naturalised on verge, Llanystumdwy, SH/47.38, BSBI meeting, 1997.
- +67/1/1. *Monotropa hypopitys* (Yellow Bird's-nest)(Cytwf). Treborth Botanic Garden, Bangor, SH/55.71, C. Brown, 1996.
- +†74/5/8 × 9. *Saxifraga* × *urbium* (*S. umbrosa* × *S. spathularis*)(Londonpride)(Balchder Llundain). Roadside, Bethesda, SH/61.68, J. Hawksford, 1997.
- +†74/8/1. *Tellima grandiflora* (Fringe-cups)(Clychau'r Clawdd). Waste ground, Borth y Gest, SH/56.37, J.A. Green, 1996; +Growing out of wall, Bryn Eglwys, nr Bethesda, SH/60.66, G. Battershall, 1996.
- *†75/3/1 × 2. *Spiraea* × *rosalba* (*S. salicifolia* × *S. alba*)(Intermediate Bridewort). Hedgerow, nr Ysbyty Ifan, SH/83.48, G. & I. Battershall, 1996.
- *†75/11/3. *Fragaria* × *ananassa* (Garden Strawberry)(Mefusen). +Side of disused railway, Bontnewydd, SH/47.57, G. Battershall & W. McCarthy, 1996. +Waste ground, Trevor, SH/38.47, G. Battershall & R. Lewis, 1996. +Base of sea-cliff, nr Criccieth, SH/49.37, G. Battershall *et al.* 1996. +Grassy bank on site of Tregarth railway station, nr Bethesda, SH/60.88, J. Hawksford, 1997. 1st and subsequent records.
- +†75/21/6. *Rosa rugosa* (Japanese Rose)(Rhosyn Japan). Side of road, Trevor, SH/38.47, G. Battershall & R. Lewis, 1996.
- +†75/22/5a. *Prunus domestica* subsp. *domestica* (Plum). Hedgerow, Bontnewydd, SH/48.59, G. Battershall & W. McCarthy; +Hedgerow, Waunfawr, SH/59.53, G. & I. Battershall, both 1996.
- +†75/22/5b. *Prunus domestica* subsp. *insititia* (Bullace) [(+ Damson)] (Eirinen Fulas). +Hedgerow, Nant Withey, Bardsey Island, SH/12.22; +Hedgerow, Machroes nr Abersoch, SH/32.26, both M. & A. Atkinson; +Laneside, nr Llanbedrog, SH/3.3, BSBI Meeting, all 1997.
- +†75/32/33. *Cotoneaster simonsii* (Himalayan Cotoneaster)(Cotoneaster y Graig). +Edge of pool, Spinnies Nature Reserve, nr Bangor, SH/613.721, G. Battershall, 1994. +Base of wall, Bethel, SH/52.65, G. & I. Battershall, 1996. +Waste ground, Trevor, SH/37.47, G. & I. Battershall, 1997. +Hedgerow, Beddgelert, SH/58.48, G. & I. Battershall, 1997. +Disused quarry, Bethesda, SH/63.69, J. Hawksford, 1997.
- *†75/32/39. *Cotoneaster franchetii* (Franchet's Cotoneaster). Bank in old quarry, Llangystenium nr Colwyn Bay, SH/82.79, G. Battershall & W. McCarthy, 1997. +Roadside, Morfa Bychan, Porthmadog, SH/53.37, BSBI meeting, 1997. 1st & 2nd records.
- *†75/32/40. *Cotoneaster sternianus* (Stern's Cotoneaster). Limestone grassland bank, Great Orme, Llandudno, SH/77.82, W. McCarthy, 1997.
- *†77/7/1b. *Anthyllis vulneraria* subsp. *polyphylla* (Kidney Vetch)(Plucen Felen). Side of disused railway track, Bontnewydd, SH/47.57, G. Battershall & W. McCarthy, 1996.
- *77/14/11b. *Vicia sativa* subsp. *segetalis* (Common Vetch)(Ffugbysen Faethol). Road bank, Uwchmynydd nr Aberdaron, SH/15.26; +Hedge bottom, Machroes nr Abersoch, SH/32.26, both M. & A. Atkinson, 1997. 1st & 2nd localised records of this subspecies.
- +†77/15/9. *Lathyrus latifolius* (Broad-leaved Everlasting-pea)(Ytbsyen Barhaus Lydanddail). Trackside bank, Wellington nr Llanbedrog, SH/30.30, BSBI meeting, 1997.
- +†77/17/1. *Melilotus altissimus* Tall Melilot)(Meillionen y Ceirw). Waste ground, Caernarfon, SH/47.63, G. & I. Battershall, 1996.
- *†77/23/2. *Cytisus multiflorus* (White Broom)(Banadl Gwyn). +Side of disused railway, Port Dinorwic, SH/52.67, G. Battershall *et al.*, 1996. +1 plant on grass verge, nr Bangor, SH/59.71, G. & I. Battershall, 1997. 1st & 2nd records.

- +77/26/1 × 2. *Ulex europaeus* × *U. gallii*. (a hybrid gorse). Grassy hillside, Great Orme, Llandudno, SH/76.83. W. McCarthy, 1997, det. P.M. Benoit.
- *+80/1/man. *Gunnera manicata* (Brazilian Giant-rhubarb)(Rheonllys Pigog). Riverside, Pont Eidda nr Ysbyty Ifan, SH/83.50, G. & I. Battershall, 1997.
- *84/1/2 × 8. *Epilobium parviflorum* × *E. ciliatum* (a hybrid willowherb). Streamside gravels, Aberdaron, SH/17.26, M. & A. Atkinson, 1997.
- *84/1/4 × 6. *Epilobium* × *lamotteanum* (*E. lanceolatum* × *E. obscurum*)(a hybrid willowherb). Quarry nr Aberdaron, SH/19.29, A.P. Conolly, 1959, det. C.A. Stace.
- +84/5/1. *Fuchsia magellanica* (Fuchsia)(Ffwsia). Cliff-top turf, Morfa Nefyn, SH/29.40, J. Hawksord, 1997.
- +92/1/2. *Rhamnus alaternus* (Mediterranean Buckthorn)(Rhafnwydden Fythwyrdd). Edge of Marle Wood, nr Llandudno, SH/80.78, G. & I. Battershall, 1997.
- *+100/1/1. *Rhus typhina* (Stag's-horn Sumach). Side of path, Glynllifon, SH/46.55, G. & I. Battershall, 1997.
- +102/1/3. *Oxalis corniculata* (Procumbent Yellow-sorrel)(Suran Felen Orweddol). Side of track, Llanystumdwy, SH/4.3, BSBI meeting, 1997.
- *+103/1/13 × pla. *Geranium* × *magnificum* (*G. ibericum* × *G. platypetalum*)(Purple Crane's-bill)(Pig yr Aran Porffor). Naturalised on a bank, Port Dinorwic, SH/52.67, G. & I. Battershall, 1996.
- +103/1/15. *Geranium pusillum* (Small-flowered Crane's-bill)(Pig yr Aran Mânflodeuog). Roadside, Morfa Bychan nr Porthmadog, SH/52.37, BSBI meeting, 1997.
- *+104/1/maj. *Tropaeolum majus* (Nasturtium)(Meri a Mari). Waste ground, Porthmadog, SH/57.39, G. & I. Battershall, 1996 and J. Clarke & A. Franks, 1997.
- +107/34/1. *Carum carvi* (Caraway)(Carwas). Damp, shady, grassy trackside, Bethesda, SH/60.67, Criccieth, J. Hawksford, 1997.
- +107/4/1/2. *Heracleum mantegazzianum* (Giant Hogweed)(Efwr Einfawr). 3 plants on edge of field, Mynydd Cilan, SH/30.25, D. Jones, 1991.
- +108/3/3. *Centaureum littorale* (Seaside Centaury)(Canri Goch Arfor). Bottom of cliff beside sea, Porth Dinllaen, SH/27.41, G. & I. Battershall, 1996.
- *+116/4/4. *Symphytum grandiflorum* (Creeping Comfrey)(Cyfardwf Llusg). Edge of wood, Edern nr Nefyn, SH/28.39, G. Battershall *et al.*, 1996. +Grassy roadside, Bethesda, SH/60.67, J. Hawksford; +Roadside and grassland, nr Spinnies NR, Aber, SH/61.72, both 1997. 1st & 2nd records.
- +118/4/1c. *Lamium galeobdolon* subsp. *argentatum* (Variegated Yellow Archangel)(Marddanhadlen Felen Arianddail). Recorded from the following squares in 1996: SH/36.34; SH/48.59; SH/48.63; SH/56.37; SH/59.53; and in 1997: SH/31.26; SH/46.55; SH/69.73.
- +118/23/1 × 2. *Mentha* × *verticillata* (*M. arvensis* × *M. aquatica*)(Whorled Mint)(Mintys Troellaidd). Streamside, Llanberis, SH/57.59, G. Battershall *et al.*, 1996.
- +118/23/3 × 4. *Mentha* × *villosa* (*M. spicata* × *M. suaveolens*)(Apple Mint)(Mintys Lled-grynddail). Riverside, Llanllyfni, SH/47.51, G. Battershall *et al.*, 1996. +Side of stream, nr Aberdaron, SH/17.26, G. & I. Battershall, 1997.
- +124/20/1a. *Euphrasia rostkoviana* subsp. *rostkoviana* [Common Eyebright] (Effros Blodau Bach Gludiog). +Side of river, Llanllyfni, SH/47.51; +Meadowland, nr Llanberis, SH/54.62, both G. Battershall *et al.*, 1996. +Damp meadow, Ty Uchaf Eidda nr Ysbyty Ifan, SH/83.50, G. & I. Battershall, 1997.
- +124/20/2. *Euphrasia rivularis* [Snowdon Eyebright] (Effros yr Wyddfa). +Wet montane grassland, Clogwyn y Garnedd, SH/61.54, A. Silverside, 1994. +Stream side, Moel Siabod, Capel Curig, SH/70.54, W. McCarthy, 1997.
- +124/20/7. *Euphrasia nemorosa* [Woodland Eyebright] (Llygad Effros). +Side of river, Llanllyfni, SH/47.51, G. Battershall *et al.*, 1996. +Limestone grassland, Marle Woods nr Llandudno, SH/79.78; +Limestone grassland, Little Orme, Llandudno, SH/81.82, both

- G. Battershall, 1996. +Grassland, Park Felen, nr Aberdaron, SH/14.24. G. & I. Battershall, 1997.
- +124/20/9 × 14. *Euphrasia confusa* × *E. ostenfeldii* (a hybrid eyebright). Rock ledge, Clogwyn y Garnedd, SH/61.54, A. Silverside, 1994.
- +124/20/9 × 18. *Euphrasia confusa* × *E. micrantha* (a hybrid eyebright). Cwm Bochlwyd, SH/65.59, A. Silverside, 1994.
- *124/20/9 × 19. *Euphrasia confusa* × *E. scottica* (a hybrid eyebright). Damp montane grassland, Cwm Idwal, SH/64.58, A. Silverside, 1994. 1st Welsh record.
- +124/20/9 × 19 × 2. *Euphrasia confusa* × *E. scottica* × *E. rivularis* (a hybrid eyebright). Damp montane grassland, Cwm Idwal, SH/64.58, A. Silverside, 1994.
- *124/20/13 × 14. *Euphrasia cambrica* × *E. ostenfeldii* (a hybrid eyebright). Rocky ledge, Cwm Idwal, SH/64.58, A. Silverside, 1994. 1st Welsh record.
- +124/20/14. *Euphrasia ostenfeldii* [Northern Eyrbright] (Effros â Dail Blewog). Damp grassland by stream, Clogwyn du'r arddu, Snowdon, SH/60.55, A. Silverside, 1994.
- +124/20/19. *Euphrasia scottica* [Scottish Eyebright] (Effros Eiddil y Ffignen Fynyddig). +Damp montane grassland, Cwm Idwal, SH/64.58, A. Silverside, 1994. +Rock ledge, Cwm Llefrith nr Beddgelert, SH/55.47, W. McCarthy & H. Hughes, 1997.
- *†127/1/1. *Acanthus mollis* (Bear's-breech)(Drainllys). Large, well-naturalised clump on bridleway, Rhiw, nr Aberdaron, SH/23.28, G. & I. Battershall, 1996.
- +†129/1/9. *Campanula portenschlagiana* (Adria Bellflower)(Cllychlys Adria). Naturalised on wall, Llanrug, SH/53.63, G. Battershall *et al.*, 1996.
- *†129/7/2. *Lobelia erinus* (Garden Lobelia). Waste ground, Llanberis, SH/57.59, G. Battershall *et al.*, 1996. +Pavement crack, Abersoch, SH/31.28, J. Hawksford, 1997.
- *†131/2/3. *Viburnum tinus* (Laurustinus)(Tinws). +1 shrub in hedgerow btwn Trefriw and Gower Bridge, nr Llanrwst, SH/78.62; +1 shrub in hedgerow of lane nr Afon Crafnant, W of Trefriw, SH/77.63, R. Lewis, 1997. 1st & 2nd records.
- +†131/3/1. *Symphoricarpos albus* (Snowberry)(Llus Eira). Waste ground, Machroes nr Abersoch, SH/32.26, G. & I. Battershall, 1997.
- +†131/6/2. *Lonicera nunda* (Wilson's Honeysuckle)(Gwyddfif Wilson). Recorded from the following squares in 1996: SH/37.46; SH/48.63; SH/57.39; SH/52.69; and in 1997: SH/60.68; SH/69.73; SH/78.62.
- +133/1/2. *Valerianella carnata* (Keeled-fruited Cornsalad)(Llysiau'r Oen Rhychiog). Several plants at bottom of wall, Abersoch, SH/397.367, G. Battershall & W. McCarthy, 1996. Also recorded in 1996 from: SH/49.37; SH/56.37 and in 1997 from: SH/56.71; SH/65.72.
- +†135/23/2. *Cicerbita macrophylla* (Common Blue-sow-thistle)(Llaethysgallen-las). Woodland edge, Llanfairfechan, SH/69.74, W. McCarthy, 1997.
- +135/28/5. *Hieracium vagum* (a hawkweed). Side of road, Llanllyfni, SH/47.51, G. Battershall *et al.*, 1996.
- *135/28/6a. *Hieracium umbellatum* subsp. *umbellatum* (Narrow-leaved Hawkweed)(Heboglys Culddail). Side of disused railway, Caernarfon, SH/48.63, G. & I. Battershall, 1996.
- +135/28/6b. *Hieracium umbellatum* subsp. *bichlorophyllum* (Narrow-leaved Hawkweed)(Heboglys Culddail). Trackside, Bethesda, SH/60.67, J. Hawksford, 1997.
- +135/28/62. *Hieracium vulgatum* (Common Hawkweed)(Llys yr Hebog). Roadside bank, Bethesda, SH/60.67, J. Hawksford, 1997.
- +†135/40/3. *Solidago canadensis* (Canadian Goldenrod)(Eurwialen Canada). Brynedyn, SH/47.56, D. Jones, 1990.
- *†135/41/3 × 4. *Aster* × *versicolor* (*A. laevis* × *A. novi-belgii*)(Late Michaelmas-daisy). Edge of neglected car park, Pwllheli, SH/37.34, J. Hawksford, 1997.
- +†135/41/4 × 5. *Aster* × *salignus* (*A. novi-belgii* × *A. lanceolatus*)(Common Michaelmas-daisy). Waste ground, Porthmadog, SH/57.38, J. Clarke & A. Franks, 1997.

- *†135/41/5. *Aster lanceolatus* (Narrow-leaved Michaelmas-daisy). Scrub, edge of river, Pwllheli, SH/37.34, J. Hawksford, 1997.
- *†135/43/1. *Erigeron glaucus* (Seaside Daisy). +Naturalised at side of track nr Aberdaron, SH/16.26, G. & I. Battershall, 1996. +Roadside verge, nr Penmaenmawr, SH/71.76, G. & I. Battershall, 1997.
- *†135/45/2. *Olearia macrodonta* (New Zealand Holly). Probably planted originally on side of track, Machroes nr Abersoch, SH/32.26, G. & I. Battershall, 1997.
- *†135/45/tal. *Olearia* 'Talbot de Malahide' (a daisy-bush). Sand dunes, West shore, Llandudno, SH/77.81, G. Battershall, 1997, det. RHS Wisley. Recorded in error as *O. paniculata* in 1993.
- +†135/62/1. *Senecio cineraria* (Silver Ragwort)(Llys y Llundw). +Nr Cae'r Gofaint, Pontllyfni, SH/44.52, D. Jones, 1993. +Roadside verge, Graianog nr Clynog, SH/45.49, G. & I. Battershall, 1997.
- +135/62/10 × 11. *Senecio* × *ostenfeldii* (*S. jacobaea* × *S. aquaticus*)(a hybrid ragwort). Side of river, Llanllyfni, SH/47.51, G. Battershall *et al.*, 1996.
- *†138/4/2. *Elodea nuttallii* (Nuttall's Waterweed)(Alaw Nuttall). Margin of Llyn Padarn, Llanberis, SH/56.62, A. Jones, 1997.
- +†145/5/2b. *Arum italicum* subsp. *italicum* (Italian Lords-and-Ladies)(Pidyn y Gog Eidalaid). Roadside verge, Abererch nr Pwllheli, SH/39.36, G. Battershall & W. McCarthy; Under hedge, Trevor, SH/38.47, G. Battershall & R. Lewis; Edge of path, Spinnies NR nr Bangor, SH/61.72, G. Battershall, all 1996.
- +151/1/18. *Juncus triglumis* (Three-flowered Rush)(Brwynen Dri-flodeuog). Among mosses on damp rock ledges, above Llyn Afon, Carneddau, SH/70.69, M. Yeo, 1997.
- +151/2/6b. *Luzula multiflora* subsp. *congesta* (Heath Wood-rush)(Coedfrwynen Luosben). +Marshy area, Nant Gwrtheyrn, SH/35.44, M. & A. Atkinson, 1997. +Heathy field, Bethesda, SH/60.67, J. Hawksford, 1997.
- +152/16/7. *Carex spicata* (Spiked Sedge)(Hesgen Dywysennog Borffor). Side of track, Gyrn Goch, nr Clynog, SH/40.48, G. & I. Battershall, 1997.
- +152/16/9a. *Carex divulsa* subsp. *divulsa* (Grey Sedge)(Hesgen Lwydlas). Abersoch, nr Pwllheli, SH/39.36, A. Jones, 1997.
- +152/16/9b. *Carex divulsa* subsp. *leersii* [Many-leaved Sedge] (Hesgen Felen-werdd y Calch). Edge of field, Pwllheli, SH/36.34, G. Battershall *et al.*, 1996.
- +152/16/44 × 46. *Carex* × *fulva* (*C. hostiana* × *C. viridula*)(a hybrid sedge). +Marshland, Cors y Llyn nr Llanllyfni, SH/48.50, G. Battershall *et al.*, 1996. +Base of cliffs, Porth Cenad, Lleyn, SH/31.24, G. & I. Battershall, 1997.
- *153/12/7b. *Festuca rubra* subsp. *junceae* (Red Fescue)(Peisgwellett Coch). Cliff-top turf, Porth Ceriad, nr Abersoch, SH/31.24, M. & A. Atkinson, 1997.
- +†153/28/5. *Avena sativa* (Oat)(Ceirch). Roadside, nr Llanfoelrhys, SH/21.26, G. & I. Battershall, 1997. (Also recorded in SH/30.25; SH/36.34; SH/60.67).
- *†153/43/1. *Lagurus ovatus* (Hare's-tail)(Cwt Ysgyfarnog). Waste ground, Pwllheli, SH/364.341, G. Battershall & W. McCarthy, 1996.
- +153/49/2. *Phleum berolonii* (Smaller Cat's-tail)(Rhonwellt Penfain). +Edge of field, Porth Dinllaen, SH/27.41; +Edge of field, nr Ysbyty Ifan, SH/84.48; +Meadow alongside river, Padog nr Pentrefoelas, SH/83.51; all G. & I. Battershall, 1996. +Meadowland, nr Criccieth, SH/49.37, G. Battershall *et al.*, 1996.
- +†153/59/1. *Hordeum distichon* (Two-rowed Barley)(Haidd Dwy-resog). Roadside, nr Borwnog, SH/25.31, A. Conolly & G. Battershall, 1996. +Waste ground, Borth y Gest, SH/56.37, G. Battershall *et al.*, 1996. +Farmyard, Bronllwyd Fawr, nr Botwnnog, SH/24.30, G. Battershall & A.P. Conolly, 1997.
- *†153/62/1. *Cortaderia selloana* (Pampas-grass)(Paithwellt). Edge of pool, Spinnies Nature Reserve, nr Bangor, SH/613.721, G. Battershall, 1994.
- *†153/68/1. *Echinochloa crus-galli* (Cockspur)(Cibogwellt Rhydd). Roadside, Bethesda, SH/60.66, J. Hawksford, 1997.

- +†153/70/1. *Setaria viridis* (Green Bristle-grass)(Cibogwellt Gwyrddlas). Pavement crack, Abersoch, SH/31.27, J. Hawsford, 1997.
- *†153/70/pum. *Setaria pumila* (Yellow Bristle-grass)(Cibogwellt Melyn). Base of wall, Jubilee Street, Llandudno, SH/78.31, W. McCarthy, 1997.
- +154/1/4. *Spartanium natans* (Least Bur-reed)(Cleddlys Bach). Small pool, Mynydd Gilau, West Lleyrn, SH/29.24, G. & I. Battershall, 1997.
- +†158/6/2. *Kniphofia praecox* (Greater Red-hot-poker). Naturalised by side of path, Pont-ilyfni, SH/43.52, G. & I. Battershall, 1997.
- +158/20/2 × 3. *Hyacinthoides non-scripta* × *H. hispanica* (Hybrid Bluebell). +Roadside verge, Abersoch, SH/394.367, G. Battershall & W. McCarthy, 1996. Also recorded in 1996 from: SH/48.63; SH/56.37; SH/61.67; and in 1997: SH/19.33; SH/4.3; SH/43.52; SH/57.69
- *†158/22/1. *Chionodoxa forbesii* (Glory-of-the-snow). Naturalised on roadside, Bodafon Lane, Llandudno. SH/80.81, W. McCarthy, 1997.
- +†158/23/2. *Muscari armeniacum* (Garden Grape-hyacinth)(Clychau Glas yr Ardd). Roadside, Bethesda, SH/61.68, J. Hawsford, 1997. +River bank, Llanfairfechan, SH/69.73; +Naturalised on roadside, Bodafon lane, Llandudno, SH/80.81, both W. McCarthy, 1997.
- *†158/31/2. *Leucorum vernum* (Spring Snowflake)(Eirriaidd y Gwanwyn). 7 clumps by footpath, Glynllifon Park nr Caernarfon, SH/45.55, D. Jones, 1991.

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

- *†2/1/2. *Selaginella kraussiana* (Kraus's Clubmoss)(Cnwfwswogl Kraus). Naturalised in mown grass by stream, Bodnant. SH/799.721, J.A. Green, 1997.
- +5/2/1. *Botrychium lunaria* (Moonwort)(Lloerlys). Limestone grassland, Rhyd-y-foel, SH/976.754, A. Robertson, 1997.
- +15/3/1. *Ceterach officinarum* (Rustyback)(Rhedynen Gefngoch). Old quarry, Glyn Ceiriog, SJ/190.346, E. Meilleur, 1997
- +20/7/3. *Pinus contorta* (Lodgepole Pine)(Pinwydden Gamfrig). Forestry plantation, Llangollen. SJ/233.476, J.A. Green, 1997.
- +28/16/1. *Aquilegia vulgaris* (Columbine)(Blodau'r Sipsi). Roadside, Pandy, SJ/199.372, J.A. Green, 1997.
- +30/1/7. *Papaver argemone* (Prickly Poppy)(Pabi Gwrychog). Old railway, Rhyd, SH/995.801, J.A. Green, 1997.
- +†37/1/1. *Juglans regia* (Walnut)(Coeden Cnau Ffrengig). Lane hedge, Rhewl, SJ/108.601, J.A. Green, 1997.
- +†45/2/2. *Claytonia sibirica* (Pink Purslane)(Gwlyddyn Rhudd). Farm woodland, Pentre-ilyn-cwmmer, SH/973.527, R.I. Green, 1997.
- +46/10/1. *Sagina nodosa* (Knotted Pearlwort)(Corwlyddyn Clymog). Car park, Mold, SJ/198.626, J. Phillips, 1997.
- +46/20/4. *Silene vulgaris* (Bladder Campion)(Gludlys Codrwith). Hedgebank, Llanarmon yn Ial, SJ/187.559, W. McCarthy, 1997.
- +47/4/3. *Polygonum arenastrum* (Equal-leaved Knotgrass)(Clymog â Dail Bach). Car park, Mold, SJ/198.626, J. Phillips, 1997.
- +47/5/4. *Fallopia convolvulus* (Black-bindweed)(Taglys yr Yd). Weedy road verge, Llyn Brenig, SH/983.592. BSBI group, 1997.
- +47/8/13×19. *Rumex × pratensis* (*R. crispus* × *R. obtusifolius*)(Meadow Dock)(Tafol y Maes). Waste ground, Pontcysyllte, SJ/266.419, J.A. Green, 1997. 2nd record.
- +†51/1/1. *Hypericum calycinum* (Rose-of-Sharon)(Rhosyn Saron). Edge of car park, Mold, SJ/199.627, J. Phillips, 1997. 1st recent record.

- *+51/1/4. *Hypericum hircinum* (Stinking Tutsan)(Euriullys Drewllyd). Cracks in stone bridge, Trevor, SJ/262.415, J.A. Green, 1997.
- +51/1/6 × 7. *Hypericum* × *desetangii* (*H. perforatum* × *H. maculatum*)(Des Etangs' St John's-wort). Limestone rocks, Loggerheads, Mold, SJ/201.627, J. Phillips, 1997.
- +51/1/10. *Hypericum humifusum* (Trailing St Johns-wort)(Euriullys Mân Ymdaenol). Lane side, Llanarmon yn Ial, SJ/176.554, D. Williams, 1997.
- +52/1/2. *Tilia cordata* (Small-leaved Lime)(Pisgwydden Deilen Fach). +Hedge, Halton, SJ/303.391; +Small wood, Rhyd-y-Foel, SH/912.763, both J.A. Green, 1997.
- +57/1/5. *Viola reichenbachiana* (Early Dog-violet)(Gwiolydd y Goedwig). Shady lane, Pandy, SJ/196.367, J.A. Green, 1997.
- +57/1/11. *Viola lutea* (Mountain Pansy)(Fioled y Mynydd). Grassland, Llangollen, SJ/231.477, J.A. Green, 1997.
- *+57/1/11 × 12 × alt. *Viola* × *wittrockiana* (*V. altaica* × *V. lutea* × *V. tricolor*)(Garden Pansy)(Pansi). Weedy roadside verge, Llyn Brenig, SH/983.592, BSBI group, 1997.
- +61/2/9 × 10. *Salix* × *sericans* (*S. viminalis* × *S. caprea*)(Broad-leaved Osier). +Wooded slope, Trefor, SJ/270.422; +Wet ditch, Graianrhyd, SJ/212.571; +Streamside, Llangernwy, SH/872.673, all J.A. Green, 1997.
- +62/7/1. *Erysimum cheiranthoides* (Treacle Mustard)(Triagl-arfog). Waste ground, Llansannan, SH/938.657, J.A. Green, 1997.
- +62/12/1 × 2. *Rorippa* × *sterilis* (*R. nasturtium-aquaticum* × *R. microphylla*)(Hybrid Water-cress) (Berwr Dŵr Croesryw). Small stream, Cyffylliog, SJ/034.595, J.A. Green, 1997.
- *+62/16/1. *Aubrieta deltoidea* (Aubretia)(Obrisia). Limestone rocks, Mold, SJ/199.627, J. Phillips, 1997.
- +62/17/1. *Lunaria annua* (Honesty)(Swllt Dyn Tlawd). Dunes / waste ground, Kinmel Bay, SH/988.807, J.A. Green, 1997.
- +62/35/2. *Sinapis alba* (White Mustard)(Cedw Gwyn). Garden weed, Rhyd y Foel, SH/912.768, W. McCarthy, 1997.
- 63/1/3. *Reseda lutea* (Wild Mignonette)(Melengu Wyllt Ddisawr). Sand dunes / waste ground, Kinmel Bay, SH/988.807, J.A. Green, 1997.
- *+72/2/4. *Ribes sanguineum* (Flowering Currant)(Rhyfon Blodeuog). Canal bank, Trevor, SJ/256.413, J.A. Green, 1997.
- +72/2/6. *Ribes alpinum* (Mountain Currant)(Rhyfon Mynydd). Thicket nr Hafodunas Hall, Llangernyw, SH/870.672, J.A. Green, 1997.
- +73/5/17. *Sedum dasyphyllum* (Thick-leaved Stonecrop)(Briweg Praffddail). Garden wall, Rhydyfoel, SH/912.766, J.A. Green, 1997.
- +75/8/321. *Rubus caesius* (Dewberry)(Mwyaren Fair). Sand dunes, Kinmel Bay, SH/987.807, J.A. Green, 1997.
- +75/9/14 × 15. *Potentilla* × *mixta* (*P. erecta* × *P. reptans* & *P. anglica* × *P. reptans*)(Hybrid Cinquefoil). Roadside, Halton, SJ/305.397, J.A. Green, 1997. **NMW**.
- +75/21/5. *Rosa pimpinellifolia* (Burnet Rose)(Rhosyn Draenllwyn). Lane hedge, Llangernyw, SH/864.671, J.A. Green, 1997.
- +75/21/18. *Rosa rubiginosa* (Sweet-briar)(Drysen Bêr). +Limestone hillside, Rhyd y Foel, SH/912.763, W. McCarthy, 1997. +Canal bank, Trevor, SJ/258.414, J.A. Green, 1997. 1st & 2nd recent records.
- +75/22/3. *Prunus cerasifera* (Cherry Plum)(Gaugeiriosen). Hedge, Betws-yn-Rhos, SH/905.734, J.A. Green, 1997.
- +75/26/3. *Pyrus communis* (Pear)(Gellygen). Lane hedge, Llangernyw, SH/870.674, J.A. Green, 1997.
- +75/35/8. *Crataegus laevigata* (Midland Hawthorn)(Draenen Ysbyddaden). Lane hedge, Llangernyw, SH/864.671, R.I. Green, 1997.
- *+77/15/9. *Lathyrus latifolius* (Broad-leaved Everlasting-pea)(Ytbsyen Barhaus Lydanddail). Grassy hillside, Rhyd y Foel, SH/914.774, J.V. Robertson, 1997.

- +†77/17/3. *Melilotus officinalis* (Ribbed Melilot)(Gwydro Rhesog). Industrial estate, Wrexham, SJ/387.493, J.A. Green, 1997.
- +†77/22/1. *Laburnum anagyroides* (Laburnum)(Tresi Aur). Lane hedge, Llangernyw, SH/872.674, J. A. Green, 1997.
- +81/1/3. *Lythrum portula* (Water-purslane)(Troed y Gywen). Lake shore, Graianrhyd, SJ/575.216, J. A. Green, 1997.
- *†85/2/1. *Aucuba japonica* (Spotted-laurel). Old hedge, Llangollen, SJ/184.439, J. Clarke & A. Franks, 1997.
- *†89/1/1 × per. *Ilex* × *altaclerensis* (*I. aquifolium* × *I. perado*)(Highclere Holly). Farm lane, Llangollen, SJ/183.434, J. Clarke & A. Franks, 1997.
- +†90/1/1. *Buxus sempervirens* (Box)(Pren Bocs). Old hedge, Pandy, SJ/199.372, J.A. Green, 1997.
- +91/2/9. *Euphorbia lathyris* (Caper Spurge)(Llyisiau y Cyfog). †Dunes/Waste ground, Kinnel Bay, SH/988.807, J.A. Green, 1997.
- *†103/1/13. *Geranium ibericum* (Caucasian Crane's-bill). Edge of stream, Llanrwst, SH/799.623, R. Lewis, 1997.
- +103/1/14. *Geranium pyrenaicum* (Hedgerow Crane's-bill)(Pig yr Aran y Gwrych). Road verge, Cerrig-y-Drudion, SH/951.485, J.A. Green, 1997.
- +103/1/15. *Geranium pusillum* (Small-flowered Crane's-bill)(Pig yr Aran Mânflodeuog). Limestone grassland, Henllan, SJ/027.679, J.A. Green, 1997.
- +107/20/1. *Aethusa cynapium* (Fool's Parsley)(Gauberllys). Village street, Llangernyw, SH/875.675, J.A. Green, 1997.
- +107/43/3. *Torilis nodosa* (Knotted Hedge-parsley)(Troed-y-cyw Clymog). Limestone grassland, Rhyd y Foel, SH/912.761, W. McCarthy, 1997.
- +†109/1/3. *Vinca major* (Greater Periwinkle)(Perfagl Mwyaf). +Roadside, Pandy, SJ/199.372, R.I. Green; +Waste ground, Kinnel Bay, SH/987.807, J.A. Green, both 1997.
- +110/8/1. *Solanum nigrum* (Black Nightshade)(Codwarth Du). Weedy roadside verge, Llyn Brenig, SH/983.592, BSBI group, 1997.
- +113/1/1. *Menyanthes trifoliata* (Bogbean)(Ffa'r Gors). Wet field, Rhosllanerchrugog, SJ/264.474, E. Meilleur, 1997.
- +†116/4/4. *Symphytum grandiflorum* (Creeping Comfrey)(Cyfardwf Llusg). Roadside, Rhyd y Foel, SH/909.768, W. McCarthy, 1997.
- +118/1/8. *Stachys arvensis* (Field Woundwort)(Briwllys yr Yd). Weedy roadside verge, Llyn Brenig, SH/983.592, BSBI group, 1997.
- +118/10/4. *Scutellaria minor* (Lesser Skullcap)(Cwccwll Bach). Wet field, Rhosllanerchrugog, SJ/264.474, E. Meilleur, 1997.
- +118/23/1 × 2. *Mentha* × *vericillata* (*M. arvensis* × *M. aquatica*)(Whorled Mint)(Mintys Troellaidd). Canal bank, Trefor, SJ/262.415, J.A. Green, 1997
- +118/23/1 × 3. *Mentha* × *gracilis* (*M. arvensis* × *M. spicata*)(Bushy Mint)(Mintys Culddail). Banks of Afon Dee, Trefor, SJ/272.420, W. McCarthy, 1997, det. R.M. Harley.
- +†118/23/2×3. *Mentha* × *piperita* var. *citrata* (Eau de Cologne Mint). Wetland nr an old well, Soar, nr Nantglyn, SJ/005.608, D. Neale, 1984, det. G. Hutchinson, conf. R.M. Harley. **NMW**. Never known to flower.
- +†118/23/3×4. *Mentha* × *villosa* (*M. spicata* × *M. suaveolens*) (Apple Mint) (Mintys Lled-grynddail). Gravelly bank of River Conwy, Ysbyty Ifan, SH/843.489, D. Neale, 1984, det. R.M. Harley. **NMW**.
- +†118/23/3×lon. *Mentha* × *villosonervata* (*M. spicata* × *M. longifolia*) (Sharp-toothed Mint). On islands in Afon Iwrch, nr Llanrhaeadr-ym-Mochnant, SJ/143.253, J.A. Green, 1984, det. R.M. Harley. **NMW**. [Originally det. as *M. × niliaca*].
- +118/25/4. *Salvia verbenaca* (Wild Clary)(Saets Gwyllt). +Limestone rock outcrops, Henllan, SJ/027.697, C. Welsh, 1997, det. J.A. Green. +Grassland, Rhyd y Foel, SH/914.762, J.V. Robertson, 1997. 1st recent records

- *†129/1/9. *Campanula portenschlagiana* (Adria Bellflower)(Clychlys Adria). Colwyn Bay, SH/836.762, R. Lewis, 1997.
- +129/1/11. *Campanula latifolia* (Giant Bellflower)(Clychlys Mawr). Wood, Denbigh, SJ/041.646, M. Cochrane, 1997. +Shady bank, Llansannan, SH/937.643, J.A. Green, 1997.
- +129/1/12. *Campanula trachelium* (Nettle-leaved Bellflower)(Clychlys Danadl). Canal bank, Trevor, SJ/256.414, J.A. Green, 1997.
- +131/2/1. *Viburnum opulus* (Guelder-rose)(Corswigen). +Hedge, Pandy, SJ/196.374, J.A. Green; +Laneside hedge, Llangernyw, SH/864.671, R.I. Green, both 1997.
- +131/2/2. *Viburnum lantana* (Wayfaring-tree)(Gwifwrnwydden). Hedge, Mold, SJ/202.627, J. Philips, 1997
- +†131/2/3. *Viburnum tinus* (Laurustinus)(Tinws). Roadside bank, Rhyd y Foel, SH/913.778, W. McCarthy, 1997.
- +†131/6/4. *Lonicera xylostemon* (Fly Honeysuckle)(Gwyddfid Syth). Limestone rocks, Mold, SJ/202.627, J. Philips, 1997.
- +134/1/1. *Dipsacus fullonum* (Wild Teasel)(Crib y Pannwr). +Sand dunes / waste ground, Kinmel Bay, SH/988.807, J.A. Green, 1997.
- +135/5/3. *Carduus crispus* (Wetted Thistle)(Ysgallen Grych). Meadow, Llansilin, SJ/214.276, J.A. Green, 1997.
- +†135/11/2. *Centaurea montana* (Perennial Cornflower)(Penlas Fythol). Waste ground, Graianrhyd, SJ/217.561, J.A. Green, 1997.
- +135/17/1. *Picris echioides* (Bristly Oxtongue)(Tafod y Llew). Canal bank, Trefor, SJ/254.415, J.A. Green, 1997.
- 135/26/3. *Crepis biennis* (Rough Hawk's-beard)(Gwalchlys Garw). Sand dunes / waste ground, Kinmel Bay, SH/988.807, J.A. Green, 1997.
- +135/28/61. *Hieracium triviale* (a hawkweed). Wall of old road, Colwyn Bay, SH/84.78, G. Battershall, 1997, det. D. McCosh. 1st post 1930 record.
- +135/30/1. *Filago vulgaris* (Common Cudweed)(Edafeddog). Rocky pasture, Rhyd-y-Foel, SH/914.761, J.A. Green, 1997.
- +†135/43/4. *Erigeron karvinskianus* (Mexican Fleabane)(Cedowydd y Clogwyn). Town centre, Wrexham, SJ/336.504, M. Rogers, 1997.
- +135/62/10 × 11. *Senecio* × *ostenfeldii* (*S. jacobaea* × *S. aquaticus*)(a hybrid ragwort). Rough field, Cerrig-y-druidion, SH/952.484, J.A. Green, 1997. 2nd record.
- +135/62/18. *Senecio viscosus* (Sticky Groundsel)(Creulys Gludiog). Pavement edge, A5, Cerrig-y-Druidion, SH/953.496, J.A. Green, 1997.
- +†135/69/1. *Doronicum pardalianches* (Leopard's-bane)(Llyisiau y Llewpard). Nr footpath, Denbigh, SJ/038.649, M. Cochrane, 1997.
- +142/1/15. *Potamogeton bertholdii* (Small Pondweed)(Dyfrllys Eiddil). Ox-bow lake, Trefnant, SJ/059.721, J.A. Green, 1997.
- *151/1/25 × 26. *Juncus* × *diffusus* (*J. effusus* × *J. inflexus*)(Diffuse Rush)(Brwynen Dryledol). Wet ground nr lake, Painters Green, SJ/502.499, J.A. Green, 1997, **NMW**.
- +152/5/1. *Scirpus sylvaticus* (Wood Club-rush)(Clwbfrwynen y Coed). Bank of drain, Holt, SJ/406527, P. Day, 1997.
- +152/7/2. *Schoenoplectus tabernaemontani* (Grey Club-rush)(Llafirwynen Arfor). Ditch, Foryd, Rhyl, SH/977.801, J.A. Green, 1997
- +152/16/8b. *Carex muricata* subsp. *lamprocarpa* (Small-fruited Prickly-sedge)(Hesgen Bigog Hwyr). Grassy bank, Pandy, SJ/183.364, J.A. Green, 1997.
- +152/16/9a. *Carex divulsa* subsp. *divulsa* (Grey Sedge)(Hesgen Lwydilas). Laneside bank, Rhyd y Foel, SH/914.756, W. McCarthy, 1997.
- +152/16/40. *Carex binervis* (Green-ribbed Sedge)(Hesgen Ddeulasnod). Grassland nr sea, Foryd, Rhyl, SH/975.801, J.A. Green, 1997.
- +152/16/41. *Carex distans* (Distant Sedge)(Hesgen Bell). Grassland nr sea, Foryd, Rhyl, SH/975.801, J.A. Green, 1997. 1st recent record.

- +152/16/47. *Carex pallescens* (Pale Sedge)(Hesgen Welwlas). Forest ride, Bontuchel, SJ/083.566, J.A. Green, 1997.
- +153/14/2. *Vulpia bromoides* (Squirreltail Fescue)(Peisgwelth Anhiliog). +Grassy bank, Pandy, SJ/185.368; +Grassland, Rhyd-y-Foel, SH/915.761, both J.A. Green, 1997.
- +153/60/1. *Triticum aestivum* (Bread Wheat)(Gwenith). Waste ground nr farm, Llangernyw, SH/859.667, J.A. Green, 1997.
- +158/24/13. *Allium ampeloprasum* var. *ampeloprasum* (Wild Leek)(Cenhinen Wylt). Earth bank nr sea, Rhyl, SH/996.802, J.A. Green, 1997.
- +158/35/1. *Ruscus aculeatus* (Butcher's-broom)(Celynnen Fair). Rough woodland, Llangedwyn, SJ/181.263, M. Wainwright, 1997.
- +162/3/4. *Epipactis helleborine* (Broad-leaved Helleborine)(Caldrist Llydanddail). Roadside, Pandy, SJ/187.376, J.A. Green, 1997.
- +162/18/2. *Dactylorhiza maculata* (Heath Spotted-orchid)(Tegeirian Brych). Wet meadow, Pandy, SJ/189.366, J.A. Green, 1997.

FLINT, v.c. 51 (comm. G. Wynne)

- +28/13/4. *Ranunculus sardous* (Hairy Buttercup)(Crafanc y Frân Blewog). Urban waste ground, Queensferry, SJ/315.683, G. Wynne, 1997. 3rd record post 1970.
- +31/5/6. *Fumaria purpurea* (Purple Ramping-fumitory)(Mwg y Ddaear Glasgoch). Hedgebank along roadside btwn Bodfari and Tremeirchion, SJ/085.717, G. Wynne, 1992, det. M. Daker. 1st record since 1942.
- +62/28/1. *Thlaspi arvense* (Field Penny-cress)(Codywasg). Waste ground at edge of rubbish tip, NE of Nercwys, SJ/244.616, J. Phillips, 1997.
- *+74/8/1. *Tellima grandiflora* (Fringe-cups)(Clychau'r Clawdd). Probable garden escape in woodland, nr houses, Wepre Country Park, Connah's Quay, SJ/291.683, J. Phillips, 1997.
- +77/15/12. *Lathyrus nissolia* (Grass Vetchling)(Ytbysen Goch). Roadside verge nr crossroads, 1 km NW of Nercwys church, SJ/230.613, J. Phillips, 1997. Frequent component of new amenity grassland on site of old rubbish tip, Etna Country Park, Buckley, SJ/285.650, P. Hodges, 1997. 1st confirmed records post 1930.
- +91/1/2. *Mercurialis annua* (Annual Mercury)(Bresych y Cŵn Blynnyddol). Base of tree, High Street, Mold, SJ/237.639. S.P. Chambers, 1997. 3rd record.
- +110/9/1. *Datura stramonium* (Thorn-apple)(Meiwyn). Weed in potato field with *Urtica urens*, 'Fferm', 1 km S of Bagillt, SJ/220.738, J. Phillips, 1997.
- +113/2/1. *Nymphoides peltata* (Fringed Water-lily)(Ffaen Gors Eddiog). Established from planted stock in shallow muddy water, Greenfield Country Park, SJ/193.773, G. Wynne, 1997. 2nd record.
- +116/2/1. *Echium vulgare* (Viper's-bugloss)(Glas y Graean). Cleared urban site btwn A548 and railway, Queensferry, SJ/315.684, G. Wynne, 1997.
- +118/23/1 x 3. *Mentha x gracilis* (*M. arvensis* x *M. spicata*)(Bushy Mint)(Mintys Culddail). Field drain, W of Penylfordd, SJ/297.607, J. Phillips, 1997. 2nd record post 1970.
- +135/12/1. *Cichorium intybus* (Chicory)(Ysgello). Waste ground at W end of Marsh Road, Rhyl, SJ/002.803, J. Phillips, 1997. 3rd recent record.
- *+134/1/2. *Dipsacus sativus* (Fuller's Teasel)(Crib Bachog). Probable garden escape in waste ground, nr car park, Bridge Inn, Pontblyddyn, SJ/278.604, S.P. Chambers, 1997.
- +135/73/1. *Calendula officinalis* (Pot Marigold)(Melyn Mair). Waste ground, W end of Marsh Road, Rhyl, SJ/002.803, J. Phillips, 1997. 2nd record and 1st since 1942.
- +153/50/2. *Bromus commutatus* (Meadow Brome)(Pawrwellt Mwyaf y Maes). Rank grassland, Sealand Ranges, SJ/302.723, D. Guest, 1997. 2nd localised post-1970 record.
- +153/50/3. *Bromus racemosus* (Smooth Brome)(Pawrwellt Llyfn). Hay meadow, Coed Duon, Tremeirchion, SJ/073.715, A.O. Chater, 1997. 1st post-1930 record.