EDITORIAL

Many BSBI members who are interested in other biological groups must at times, compare the work done in those fields with botanical recording and this comparison of the various disciplines often highlights the pioneering work and great achievements made by botanists in Wales.

In contrast to the present-day sophistication of botanical recording, the study of some other spheres of natural history is almost primitive in its organization: for example, for many invertebrate groups, county lists have yet to be compiled - if investigated at all - whilst nowadays even some new 10 km square plant records merit publication in the Welsh Bulletin. As we all know it was the botanical community who initiated studies of plant distributions on a 10 km square basis and produced the first Atlas of such distributions, an eminently successful undertaking later adopted by researchers of other biological groups. Likewise, some of the earlier papers on ecology were often botany-dominated such as E. Price-Evans' 1932 paper on Cadair Idris in the Journal of Ecology.

We are fortunate too, in having a strong and dedicated team of vice-county recorders some of whom are helping to pioneer methods of data storage, retrieval and analysis. The sound foundations laid by the earlier botanists and the efforts of present day members augur well for the future.

I. K. Morgan 23 October 1986

REQUEST FOR ARTICLES and NOTES

There is currently no material for the next (Spring) issue of the Welsh Bulletin. May I appeal to the membership to put pen to paper please - we need your support for the success of the Bulletin. Thank you.

Ed.

The long delay in the publication of this issue is due to production difficulties and is not the responsibility of the editor.

Gwynn Ellis

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IMPORTANT NOTICE

Nominations for membership to the Committee for Wales or for the posts of Hon. Secretary or Hon. Treasurer should be made in writing, with the signature of the nominees, before May 31st to Mr R.C. Ellis, Hon. Secretary, BSBI Committee for Wales, National Museum of Wales, Cardiff.

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HON. SECRETARY’S REPORT

Annual General Meeting, 1986

The twenty-fourth Annual General Meeting, 6th Quadrennial Meeting and 4th Exhibition Meeting of the B.S.B.I. Wales, was held at Coleg y Bala, Bala, Gwynedd on July 12th 1986.

On the Friday evening and early Saturday morning, members were shown Carex magellanica and other interesting sedges at Ffridd Fawrion Dog by P.M. Benoit, but the main excursion on the Saturday morning was not to Ffridd Fawrion as given on the programme but, by common assent, to an area in the Berwyn Mountain SE of Bala to see Listera cordata, Rubus chamaemorpha, and other plants. Detailed instructions were left at Coleg y Bala and, happily, most members arriving that morning managed to find their way to the new meeting place without difficulty.

After lunch, about forty members and guests gathered for the afternoon session. In the absence of the Chairman, the Vice-chairman, Mrs J.A. Green welcomed those present and introduced the guest speaker, Mr D. Elias, NCC Warden for the Bala area. He gave a very comprehensive and excellently illustrated talk on “Conservation and Plants in the Bala area” which was much appreciated by all present.

The Vice-chairman then opened the Annual General and Quadrennial Meetings.

Apologies for absence were received from Mrs M. Briggs (Hon. General Secretary), Mr M. Porter (Chairman, Committee for Wales), T. Blackstock, Q. Kay, I.K. Morgan, R.G. Woods and G. Wynne (all members of Committee for Wales).

After a few opening remarks the Vice-chairman invited the Secretary to give his report on the years activities. He began by reporting that the Committee for Wales had remained at full strength during the year and remarked that the Society in Wales was fortunate to have such an active and able body of people prepared to give up an appreciable amount of their spare time to look after it’s activities. He next mentioned that at this meeting we said farewell to the present Chairman, Mr M. Porter, who had over the years been one of the staunchest supporters of the Committee for Wales. He was Secretary for many years before becoming an ‘ordinary’ member of the Committee in 1978. In 1982 he was elected Chairman and happily has agreed to stand again for election to the Committee. The Secretary then commented on the continued absence of nominations received from ordinary members of the Society; it might look to outsiders as if some sort of ‘closed shop’ was in operation. Nothing could be further from the truth; the Committee would welcome the chance of an injection of fresh blood but it was up to members to put forward nominations.

At the last AGM it was announced that the recordership for v.c. 47 was vacant following the sad death of Miss Doris Pugh. The Secretary was happy to announce that a new recorder had now been appointed, Mrs Marjorie Wainwright, and she was introduced to the meeting.

He then thanked the leaders of those field meetings that took place after the previous AGM and the two held so far in 1986 and reminded members of the forthcoming meetings that had been arranged. He drew attention to the fact that members who attended field meetings but had never led or organized one themselves, often found it difficult to appreciate all the hard work and effort that goes into making a successful meeting. He then mentioned that the Committee for Wales was aware that at many field meetings the number of participants had to be limited. This was not something which it liked to happen but it was clearly not possible to take a large party around sensitive areas, nor for one person to lead a party of over 25 participants so that all members could hear and see all that the leader would like them to. One of the strongest arguments against limiting numbers was that if the Society was trying to increase it’s membership, then it should not, at the same time, limit numbers at field meetings. Attending such meetings provided one of the best ways for members to meet each other and to become involved with the work of the Society.
The Committee had discussed several ways of improving the situation. One suggestion was to split the party into two, with the main group going one way and the second, consisting mainly of beginners and guests, being instructed in some of the basics of plant identification, or being led around a different area. If adopted this suggestion would enable us to keep meetings open to a larger number of participants but also involve having more than one leader.

Finally the Secretary thanked the Officers of Coleg y Bala for looking after them so well, and Mrs J.A. Green who had helped to organize the meeting.

FINANCIAL REPORT

The Treasurer delivered his Financial Report details of which are summarized in the Balance Sheet produced below. He was at pains to point out that the very healthy looking balance was due almost entirely to the fact that several large bills had not yet been presented for payment. Once these had been deducted the balance would assume more normal proportions.

BALANCE SHEET

SUMMARY OF FINANCIAL ACCOUNTS FOR THE PERIOD JANUARY - JUNE 1986

GENERAL ACCOUNT

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<tr>
<td>Hieracium meeting (Carns.)</td>
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<tr>
<td>Lampeter meeting</td>
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Excess Income over Expenditure £674.17

£27.94

SPECIAL ACCOUNT

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Bills were expected shortly for the Hieracium meeting, the Lampeter meeting, the Bala meeting and for the production and postage of Welsh Bulletins 42 & 43 which would reduce the Deposit Account Balance to a more normal level.

The Vice-chairman warmly thanked the Secretary and Treasurer for their reports.
ELECTION OF CHAIRMAN
AND WELSH REPRESENTATIVE ON COUNCIL

The Committee for Wales had nominated Mrs J.A. Green for the post of Chairman and Welsh Representative on Council and in the absence of any other nominations this was carried by acclamation.

ELECTION OF OFFICERS

The Hon. Secretary R.G. Ellis and the Hon. Treasurer R.D. Pryce were both nominated for re-election to their respective posts and in the absence of any nominations from the floor were duly elected.

Committee Members

Dr Q.O.N. Kay and Messrs S.B. Evans, I.K. Morgan and G. Wynne were all due to retire under Rule 5 of the constitution and were eligible for immediate re-election. All four had indicated their willingness to stand again and in the absence of any nominations from the floor were duly elected to serve for a further period of two years. The retiring Chairman, Mr M. Porter was nominated to fill the remaining post on the Committee and was duly elected to serve a period of one year.

In reply to a question from Mr P. Hall about the post of Vice-chairman, the Secretary explained that this was for the Committee to decide and announced that Mr T.G. Evans had agreed to serve in that capacity.

An amusing interlude followed when the Secretary presented the Treasurer with a Tee-shirt with the BSBI emblem and the words BSBI WALES emblazoned on the front. A similar Tee-shirt would be presented to the retiring Chairman. In reply to a question from the floor, the Secretary stripped off his shirt to reveal that he too was wearing a BSBI Tee-shirt. The Tee-shirts had been hand painted by the Secretary's son Carl Ellis.

There being no further business, the Chairman declared the AGM closed and invited members and guests to look at the various exhibits on show.

EXHIBITS

T.G. Evans: 'What Plant is This?' quiz
Monmouthshire Plants

R.D. Pryce: A new record for Ireland?
Carmarthenshire Flora Maps

R.G. Ellis: Eleanor Vachell's botanical diaries and notebooks
Welsh Bulletin Cartoons - an explanation

Slides were shown by Mr & Mrs Case, Miss A.P. Conolly, Mr T.G. Evans, Mrs J.A. Green and Mr R.D. Pryce.

R.G. Ellis showed a video recording of that mornings visit to the Berwyns.
COMMITTEE FOR WALES, 1986-87

Following the election of Officers and Members at the Quadrennial and Annual General Meetings, the composition of the Committee for Wales for 1986-87 is as follows:

Chairman: Mrs J.A. Green
Vice-chairman: Mr T.G. Evans
Secretary: Mr R.G. Ellis
Treasurer: Mr R.D. Pryce

Committee members:

Mr T. Blackstock*
Mr N. Brown*
Mr R.G. Woods*
Mr M. Porter*
Mr S.B. Evans
Dr Q.O.N. Kay
Mr G. Wynne
Mr I.K. Morgan

*Members due to retire in 1987.

ANNUAL GENERAL MEETING

AND

WELSH EXHIBITION MEETING, 1987

The 25th AGM and 5th Welsh Exhibition Meeting will be held at Usk Agricultural College, Usk, Gwent on July 11th, 1987.

Programme:

10.00am Tetrad Recording for the Flora of Gwent and the BSBI Monitoring Scheme

1.00pm Lunch

1.30pm Meeting of Committee for Wales

2.30pm "The Flora of Gwent" by T.G. Evans

3.30pm Tea

4.00pm AGM

4.30pm Welsh Exhibition Meeting - Exhibits, short talks with slides etc.

6.00pm Dinner

7.30pm Exhibition Meeting continued!

Advance notice would be appreciated of any exhibits or slides but they will be accepted on the day.

Single room accommodation is available at Usk Agricultural College at £3 per night B & B from 10-13 July. Lunch and Dinner at the College are also available for non-residents. All BSBI members and their guests are welcome.

Further details and booking forms can be obtained from the Secretary to the Committee for Wales: Mr R.G. Ellis, Department of Botany, National Museum of Wales, Cathays Park, Cardiff, South Glamorgan CF1 3NP. Please apply before June 1st.

If any member wishes to help with the Flora of Gwent recording scheme on the Friday or Monday would they please contact Mr T.G. Evans, La Cuesta, Mounton Road, Chepstow, Gwent NP6 5BU, who will provide them with recording cards and sites of interest.
BSBI WALES FIELD MEETINGS 1987

Please note that unlike previous years, full details of meeting place etc. are given for most meetings in the programme below. If you wish to book for these meetings (except for the residential meetings in Carmarthenshire), please write to: R.G. Ellis, Dept. of Botany, National Museum of Wales, CARDIFF CF1 3NP, and not to the leaders.

SATURDAY 16th MAY
ST ASAPH (v.c. 50/51), CLWYD
Leader: Mr G. Wynne

A meeting to record in 10km square SJ(33)/07 for the BSBI Monitoring Scheme. This is a rich square with a tidal estuary, wooded river valleys and extensive limestone escarpments. Meet at lay-by on the east side of the AS25 St Asaph - Rhuddlan road (map ref. approx. SJ/030760; O.S. 1:50,000 Sheet No. 116), at 10.30a.m.; bring packed lunch.

SUNDAY 17th MAY
TAL-Y-CAFN (v.c. 49/50), GWYNEDD/CLWYD
Leader: Mrs J.A. Green

A meeting to record in 10km square SH(23)/77 for the BSBI Monitoring Scheme. Many varied habitats present including mountain to 641 metres, woodland, tidal river banks and sand dunes. Meet at Tal-y-cafn bridge, east side (map ref. SH/787717; O.S. 1:50,000 Sheet No. 116), at 10.30a.m.; bring packed lunch.

SUNDAY 24th MAY
LLANEGFNI DINGLE (v.c. 52), ANGLESEY
Leaders: Mr N.H. Brown & Mr R.H. Roberts

A meeting to record in 10km square SH(23)/47 for the BSBI Monitoring Scheme. The morning will be spent recording in the Dingle and some of the environs of Llangefni. After lunch the party will move to Llyn Frogwy to record the aquatic flora of this small lake. Meet at the Dingle Car Park, Llangefni (map ref. SH/458759; O.S. 1:50,000 Sheet No. 114), at 10.30a.m.; bring packed lunch.

SATURDAY 30th MAY
FONT-Y-GARY (v.c. 41), GLAMORGAN
Leaders: Mr R.G. Ellis & Dr G. Hutchinson

A meeting to record in 10km square ST(31)/06 for the BSBI Monitoring Scheme. A coastal square with sea cliffs, shingle beaches and a small area of saltmarsh together with disused limestone quarries with a very rich flora. Meet at lay-by on unclassified coast road just west of Rhosne Village (map ref. ST/050652; O.S. 1:50,000 Sheet No. 170), at 10.30a.m.; bring packed lunch.

SATURDAY 20th JUNE
EFAILWEN (v.c. 44/45), DYFED
Leaders: Mr S.B. Evans & Mr R.D. Pryce

A meeting to record in 10km square SN(22)/12 for the BSBI Monitoring Scheme. A variety of habitats will be encountered, ranging from upland moorland flushes of the Preseli Mountains to lowland woodlands of the Taf and Cleddau Valleys. Meet in
Efallwen village (map ref. SN/134253; O.S. 1:50,000 Sheet No. 145), at 10.30 a.m.; bring packed lunch.

SATURDAY 4th JULY
NEWBRIDGE-ON-WYE (v.c. 42/43), POWYS
Leaders: Miss A. Powell & Mr R.G. Woods

A meeting to record in 10km square SO(32)/05 for the BSBI Monitoring Scheme. Possibly the most diverse and species rich square in mid Wales. Fine sections of the Rivers Wye and Irfon, internationally important bushy mire, species rich pastures, steppe grassland with fine spring ephemerals, woodland and heather moor. Meet in the car park opposite the New Inn, Newbridge-on-Wye at junction of A470 and B4358 in Newbridge-on-Wye, (map ref. SO/016583; O.S. 1:50,000 Sheet No. 147), at 10.30 a.m.; bring packed lunch.

SUNDAY 5th JULY
MOUNTAIN ASH (v.c. 41), GLAMORGAN
Leaders: Mr J.P. Curtis & Mrs A.M. Pell

A meeting to record in 10km square ST(31)/09 for the BSBI Monitoring Scheme. This square has a very rich introduced flora in the industrial areas and a diversity of upland habitats. Meet at layby-like street adjoining A4224, Fernhill, Mountain Ash (map ref. ST/035995; O.S. 1:50,000 Sheet No. 170), at 10.30 a.m.; bring packed lunch.

SUNDAY 12th JULY
ABERSYCHAN (v.c.35), GWENT
Leader: Mr T.G. Evans

A meeting to help with recording for the proposed 'Flora of Gwent' and the BSBI Monitoring Scheme. Meet at car park south of the B4246 Abersychan - Talywaun Rd just west of the A4043 (map ref. SO/269034; O.S. 1:50,000 Sheet Nos 161 & 171), at 10.30 a.m.; bring packed lunch.
This meeting is held in conjunction with the BSBI Wales AGM and Exhibition Meeting on Saturday 11th July. Accommodation for all or part of the meeting is available at Usk Agricultural College.
Please apply for details and booking form to Mr R.C. Ellis, at the address given above, before 1st June.

SATURDAY 18th JULY
LLANGADFAN (v.c.47), POWYS
Leader: Mrs M. Walnwright

A meeting to record in 10km square SJ(33)/01 for the BSBI Monitoring Scheme. A mainly upland square with pasture, moorland, bogs, lakes pools and wooded areas, but with some lowland habitats along the River Banwy. Meet at Cann Office Hotel on A458, just north of the village of Llangadfan (map ref. SJ/017107; O.S. 1:50,000 Sheet No. 125), at 10.30 a.m.; bring packed lunch.

SUNDAY 19th JULY
RHEIDOL GORGE, PONTERWYD (v.c. 46), DYFED
Leader: Mr A.O. Chater

A meeting to record in 10km square SN(22)/78 for the BSBI Monitoring Scheme. Sites to be visited include unbotanized parts of the Rheidol gorge, upland rocks, and ponds and reservoirs with Isopetes and other aquatic.
Meet on short stretch of road W of the River Rheidol between the two bridges in Ponterwyd village (map ref. SN/748808; O.S. 1:50,000 Sheet No. 135), at 11a.m.; bring packed lunch; waterproof footwear advised.

FRIDAY 31st JULY to MONDAY 3rd AUGUST
CARMARTHENSHIRE (v.c. 44), DYFED
Leader: Mr A. Newton
A Rubus recording weekend based at Trinity College, Carmarthen, which will concentrate on recording Rubi in as many different tetrads as possible for the proposed 'Flora of Carmarthenshire'. Accommodation is available in Trinity College Halls of Residence. Please apply for details and booking forms to Mr R.D. Pryce, Rhyd-Deg, Maesybont, LLANELLI SA14 3HG, before July 1st.

SUNDAY 2nd AUGUST
CERRIGCEINWEN & LLANGRISTOLUS (v.c. 52), ANGLESEY
Leader: Mr N.H. Brown & Mr R.H. Roberts
A meeting to record in 10km square SH(23)/47 for the BSBI Monitoring Scheme. Particular attention will be paid to the arable weeds and wayside flora, but visits will also be made to some rocky outcrops. Meet at the Dingle car park, Llangefenl (map ref. SH/458759; O.S. 1:50,000 Sheet No. 114), at 10.30a.m.; bring packed lunch.

FRIDAY 14th to MONDAY 17th AUGUST
CARMARTHENSHIRE (v.c. 44), DYFED
Leader: Mr R.D. Pryce
A 'Flora of Carmarthenshire' recording weekend based at Trinity College, Carmarthen, which will concentrate on tetrad recording in a wide range of habitats in 10km squares SN42 and SN72. Accommodation is available in Trinity College Halls of Residence. Please apply for details and booking forms to Mr R.D. Pryce, Rhyd-Deg, Maesybont, LLANELLI SA14 3HG, before July 1st.

SATURDAY 12th SEPTEMBER
RUABON (v.c. 50), CLWYD
Leader: Mr P. Day
A meeting to record in 10km square SJ(33)/34 for the BSBI Monitoring Scheme. Many varied habitats including wooded river valleys, parkland, disused railways and industrial areas. Meet at Ruabon Station car park (map ref. SJ/301438; O.S. 1:50,000 Sheet No. 117) at 11a.m.; bring packed lunch.

SUNDAY 13th SEPTEMBER
MELIN-Y-WIG (v.c. 48/50) GWYNEDD/CLWYD
Leaders: Mr P.M. Benoit & Mrs J.A. Green
A meeting to record in 10km square SJ(33)/04 for the BSBI Monitoring Scheme. A botanically underworked square, mainly upland habitats but includes a long stretch of disused railway and lowland meadows and marshes along the valley of the River Dee. Meet near cross-roads in Melin-y-Wig village (map ref. SJ/039487; O.S. 1:50,000 Sheet Nos 116 + 125), at 11a.m.; bring packed lunch.
RED PRIMULA VERIS AND P. VULGARIS

On Saturday May 11 1986 I set out on a bike ride to check a record. In a cottage garden across the road I saw a crimson Primula veris. Further on and deep into Wales and a good quarter-mile from the nearest house I noted a deep crimson false oxlip, or possibly polyanthus, with a white edge to its dark petals and a foot-long stalk. (Grid reference S0239996). Along the lane was yet another, a soft slightly pinky-red, with no white edge, (Grid reference S0236999). There were good patches of Primula vulgaris along the lane, and many scattered plants of ordinary golden P. veris. Both red ones had very long stalks to their one flower head.

JOYCE ROPER, Lower Brook House, Priest Weston, Montgomery, Powys

Polyanthus and Primula - as any gardener will tell you - are notorious for the ease by which they hybridize and since pollination is often effected by flying insects such as various bees, seemingly unexpected colour forms can occur at substantial distances from gardens. To confuse the issue through, false oxlips can be unusually coloured - I remember seeing brick-red individuals on the limestone ridge near Crwbin in Carmarthenshire. Do members have any observations on this matter? Ed.

VALERIANA OFFICINALIS IN WALES

I am at present conducting research into the distribution of specific forms of Valeriana officinalis L. and am particularly interested in populations on well drained sloping sites especially on calcareous soils. I would be most grateful for information on any such sites in mid and North Wales.

KENNETH HAMNER, Department of Biological Sciences, University of Keele, Keele, Staffordshire ST5 5BG

SURVEY OF SOME OF THE CARMARTHENSHIRE BURIAL GROUNDS

PART 2

Many burial grounds seem to harbour a great variety of species. Most have one or more of special interest because locally they do not grow outside the graveyard. The following are a few Carmarthenshire examples.

Euphorbia exigua (Dwarf Spurge) grows abundantly in three graveyards in Ammanford. In 1984 there were over 700 plants in Christian Temple’s new graveyard. This spurge had not been recorded in Carmarthenshire since T.W. Barker’s record of 1905 see note below. Ed.

Valerianella carinata (Keeled-fruited Cornsalad) is also found in this graveyard, discovered, new to the v.c., in 1985 (AMP) growing with Sedum anglicum (English Stonecrop), S. album (White Stonecrop) and Alchemilla mollis. The old graveyard of Christian Temple also had a good population of Euphorbia exigua together with Erophila verna (Common Whitlowgrass), Aethusa cynapium (Pooil’s Parsley) and a single
magnificent specimen tree of Ficus carica (Fig). A couple of years ago the whole was given the 'new-look': gravestones up-rooted and stood all around the walls and the ground 'tidied' and levelled and made into a beautiful green lawn. Did they have to demolish the Ficus - and concrete over the soil where it grew? Time passed and in August a healthy sucker has appeared growing out of the boundary wall, about 1.5 m from the spot where the plant had its root.... marvellous dictu!

Geranium veredicolour (Pencilled Crane's-bill) was found dotted all over a long-since disused Baptist graveyard in Penrhlgoch. It can only be approached by a footpath through an old meadow and then through an old kissing-gate. The first chapel was built in 1798: there is little trace of any chapel today. A tiny stream flows through the baptistry with an abundance of associated Caltha palustris (Marsh-marigold) and Lychna flos-cuculi (Ragged-Robin) and nearby, Naasturtium microphyllum (Narrow-fruitcd Water-cress) was recorded for the first time in the v.c. (AMP). On a dry bank, by the rubbish that is all that remains of the old chapel, 150 stems of Aconitum napellus ( Monk's-hood) were counted. Alongside were a few plants of Viola odorata (Sweet Violet) but, alas, the ground is fast becoming an impenetrable jungle of brambles and brambles, willows and tall hogweeds. At the opposite end of the footpath there is a large stand of Lilium pyreneicum (Pyrenean Lily) growing in the laneside hedge, as if to mark the way for worshippers.

Within a mile or so of the coast, Rubus caesius (Dewberry) grows in St. Paul's Churchyard, Llanell. Oenothera lacrosa (Welsh Evening-primrose), Centaurea scabiosa (Greater Knapweed), Silene vulgaris subsp. vulgaris (Bladder Campion) and Sapomaria officinalis (Soapwort) also grow here.... these are not rare, nor confined to graveyards but were very colourful and quite unexpected.

Rich grassland habitats are often found in graveyards which mirror the flora of old species-rich pastures formerly widespread before the advance of destructive agricultural practices. Sanguisorba officinalis (Great Burnet) is frequently found in sites which are now only once or twice a year and can tolerate a reasonable amount of rank competition. Orchis maculata (Early-purple Orchid) is less tolerant of competition but, together with Dactylorhiza fuchsii (Common Spotted-orchid), is probably the most commonly encountered orchid in the county's cemeteries. Occasionally rarer species are found: one plant of Orchis morio (Green-winged Orchid) was seen growing in a large population of O. maculata at a whitland cemetery and at least fifty plants of Platanthera chlorantha (Greater Butterfly-orchid) occur at Nantgedig and another smaller population in Llanaadwen Churchyard. Listera ovata (Common Twayblade) has been recorded at Halfpenny Furze together with Ononis repens (Common Restharrow). Large, only partially occupied graveyards are often managed using a cutting regime similar to that of old hay-meadows. Bethel Chapel, Glanamman is such a site where Sanguisorba officinalis is codominant with Rhinanthus minor (Yellow-rattle), Briza media (Quaking-grass), Conopodium majus (Pignut) and Euphrasia sp. (Eyebright) among more familiar species. (Wetter areas at the same site are rich in sedges, Dactylorhizas and Carex verticillatum (Whorled Carcaway)).

Vicia tetrasperma (Smooth Vare) grows plentifully in Calvaria graveyard, Penygroes. It grows in the unused, species-rich part of the enclosure, billowing over the grass. Allium vineale (Wild onion) grown
In Llangadog and Capel Bedydwyr cemeteries, Sanguisorba minor (Sedum Burnet) in Llanfynydd, Polygonum bistorta (Common Bistort) and Adoxa moschatellina (Moachetel) in Bethel, Bethlehem and Primula veris (Cowslip) in Llandello-abercowin and Pont Wedvat, Cenarth.

In Carmarthenshire Filipendula vulgaris (Dropwort) has rarely been recorded outside burial grounds. (The notable exceptions, however, are the hedgebank plants known to T.W. Barker at Mynyddy, near Carmarthen, in 1905 which are extant). This species is well established in Brechfa, Cenarth, Llanfynydd, Llaningel and Wyddfa; Churchyards as well as Capel Isaac and Saron, Llanegla, Chapel graveyards (see map) and is often found growing with Lilliacea pyrenaica. Certainly the lily is planted but is F. vulgaris a native or else merely an introduction? It is not recorded in any local limestone grassland where it could be expected to grow if a native of the area. If not native, has it any particular religious significance?

In the west of the county, Narcissus obvallaris (Teny Daffodil) is commonly seen growing in graveyards (as well as lane verges), often in company with N. pseudonarcissus (Wild Daffodil), N. pseudonarcissus subsp. major (Common Double Daffodil) and the so-called "Derwydd Daffodil" with green, leafe, double perianth segments.

Cultivated plants are often introduced to adorn the graves of loved-ones. Lilies, Arums and Peonies are obvious choices but there are several burial-ground records of Rhodiola rosea (Roseroot) and one of Rosa pimpinellifolia (Burnet Rose) in addition to two or three of what appears to be Valeriana pub but is as yet unconfirmed.

Botanical coverage of Carmarthenshire's graveyards is still far from complete and it is likely that many interesting plants await discovery. Every site will, no doubt, eventually be visited during the recording for the Flora Project but it may be some years before the complete picture is known. We would, however, like to thank all recorders whose notes have been used to make this account more comprehensive.
Since this article was written, Euphorbia exigua has additionally been discovered growing abundantly on the floor of a disused limestone quarry at Wynydd Cerrig. Ed.

MRS A.K. PELL, 16 Cloa yr Hendre, Capel Hendre, Ammanford, Dyfed and R.D. PRYCE, Rhyd-Deg, Maesybont, Llanelli, Dyfed.

WHITHER WEEDS?

The success of herbicides, improvements in commercial seed cleaning techniques and changes in agricultural practices seem generally to have led to the decline of many of the annual arable weeds which were perhaps once familiar in the Welsh countryside. Corncockle, corn flower and poppy are rare or gone. Weeds are largely confined now to farmyards, tips, derelict industrial sites, and road verges. Farmland has now become a very dull hunting ground. Ayla Smith of the Nature Conservancy Council at Peterborough has been charged with the task of identifying the current status of 25 species of mainly arable weeds. Enlisting the help of BSBI members, the task in Wales seems to be a very light one. In Radnor only 3 of these 25 species have been seen in the last 50 years, and only field woundwort (Stachys arvensis) occurs still as an arable weed.

With this survey biased to the SE (an admission of its author), has Wales and particularly the cold and soggy bit of it in the middle, got any sort of weed flora worth conserving? With past records so sparse, can we tell if it ever did have a significant flora?

Opportunities for an agricultural weed flora to develop in the sheep country of mid Wales are not great. The ploughing and rototilling of semi-permanent pasture at irregular intervals (typically between 5 and 10 years) causes enough disturbance to allow weeds to germinate, but in a good growing season the sown rye grass and clover grow fast and grazing often commences around six weeks after sowing, giving few weed species a chance to flower and seed. The only significant arable crop grown is swedes. Swede fields can be very rewarding to the weed hunter. Field woundwort (Stachys arvensis), sun spurge (Euphorbia helioscopia), corn marigold (Chrysanthemum segetum), field and wild pansy (Viola arvensis and V. tricolor), and large-flowered hemp nettle (Galeopsis speciosa) all have their headquarters now amongst the swedes. Not all swede fields are good for weeds, however. Pre-emergence weedkillers are available and may severely limit the development of many of these species, if its manufacturers are to be believed. Regular usage of herbicides could well threaten the arable weed flora as has occurred amongst the cereals of lowland Britain.

Yet it is a remarkably resilient flora. Jim Dixon elsewhere in this bulletin describes his findings on seed banks in the upland soils. Seeds of many species can remain dormant for decades, possibly passing deep into the soil where stable low temperatures may prolong their life. Arthur Chater and Glyn Jones noted a particularly rich weed flora on soil excavated from a deep trench at Aberporth, Cardiganshire. The site had been almost certainly under permanent pasture since the start of the 2nd World War. (Sanctuary, the Conservation Bulletin of the Ministry of Defence, Vol 9, pp 11-13. 1982).
Deep digging for roadworks and pipe laying in fields in mid Wales have produced some rich weed floras. The major roadworks at Henllit, S of Builth Wells, Brecknock provided soil for road verges near Troedrhiwvaldar, Llanfanaf (SN9453). In July 1985, 49 species of weed appeared on the verges, including cornflower (Centaurea cyanus), field woundwort Stachys arvensis and, new to Brecknock, henbit dead-nettle (Lamium amplexicaule). Was this the flora typical of the oat and potato fields of 50 or more years ago? Not so good for the farmer, but what a botanical feast. I’m looking for an enthusiastic JCB or a botanist with grave digging experience. There seems to be a fascinating flora sleeping six feet down.

R.G. WOODS, NCC, Llysdinam Field Centre, Newbridge on Wye, Powys.

WELSH PLANT RECORDS - 1985

Welsh Plant Records are compiled by R.Gwyn Ellis, Dept. of Botany, National Museum of Wales, CARDIFF CF1 3NP, from reports of BSBI vice-county Recorders to whom records should preferably be sent. Plants are listed for each county in the order of Dandy’s List of British Vascular Plants (1958), the number in that list preceding the name, so that names recently changed can be used without giving the former name. English names are those in English Names of Wild Flowers ed. 2 (1986) by Dony et. al.

The following symbols are used:
* to indicate a new v.c. record.
+ to indicate a new 10km square record.
! to indicate that the species is not native to Wales.
$ to indicate a species which, though 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.

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

In general only those records which are additional to those given in Flowering Plants of Wales by R.G. Ellis (1983) are included. Other records are included at the discretion of the County Recorder.

The County Recorders are:
MONMOUTH v.c. 35; T.G. Evans, La Cuesta, Mountray Road, Chepstow, Gwent NP6 3HB
GLAMORGAN (West) v.c. 41; Dr Q.O.N. Kay, Department of Botany, University College, Singleton Park, Swansea, West Glamorgan SA2 8PP
GLAMORGAN (East) v.c. 41; J.P. Curtis, 12 St Lythan Close, Dinas Powys, South Glamorgan CF6 4UB
BRECON v.c. 42; M. Porter, Aberhoowy Farm, Cyffredyn Lane, Llangynidr, Crickhowell, Powys
RADNOR v.c. 43; Miss A.C. Powell, Corner Cottage, Great Oak, Eardisley, Hereford HR3 6LU
CARMARTHEN v.c. 44; R.D. Pryce, Rhyd-Deg, Maesbury, Llanelli, Dyfed SA14 7UG
PEMBROKE v.c. 45; S.B. Evans, Glany-Mor, Dinas Cross, Newport, Dyfed SA42 0UQ
CARDIGAN v.c. 46; A.O. Chater, Department of Botany, British Museum (Natural History), Cromwell Road, London, SW7 5BD
MONTGOMERY v.c. 47; Mrs M. Wainwright, ‘Troy’, 1 Green End, Oswestry, Shropshire, SY11 1BT
MERIONETH v.c. 48; P.M. Benoit, Pencarrreg, Barmouth, Gwynedd LL42 1BL
CAERNARFON v.c. 49; M. Morris, Plas Derwen, Penmachno, Gwynedd LL24 0PT
DENBIGH v.c. 50; Mrs J.A. Green, Coed Duon, Tremerchon, St Asaph, Clwyd LL17 0HU
FLINT v.c. 51; G. Wynne, Gwyifa, Lixwm, Holywell, Clwyd
ANGLESEY v.c. 52; R.H. Roberts, Quinton, Belmont Road, Bangor, Gwynedd LL57 2HY.
MONMOUTH, v.c. 35 (comm. T.G. Evans)

46/11. Ranunculus lingua L. (Greater Spearwort). A small area in a marsh below St Pierre Lake, ST59, Dr Allscurr Jacks.

158/15. Papaver argemone L. (Prickly Poppy). A small number as weeds among Blom’s bulbs in a Chepstow garden, ST59, TGE.

113/12. Viola tricolor L. subsp. tricolor (Wild Pansy). + Weeds on edge of cornfield near Penterry Church, ST59. + and near Henllys Fen, ST29; TGE.

113/13. Cerastium tomentosum L. (Snow-in-summer). On top of cliffs, Sudbrook, ST48, TGE. Present many years, possibly originating from garden refuse tipped over cliff edge by gardeners.


1166/2. Linum usitatissimum L. (Flax). Many plants on Newport Tip, ST38, TGE. The commonest Linum on rubbish tips and in dock areas.

1168/2. Ceranium ibericum Cav. x G. platypetalum Fischer & C.A. Meyer = G. x magnumflorus Hy. (Purple Crane’s-bill). Disused railway station, with other garden throw-outs, Govilon near Abergavenny, SO21, S. Waldren. Third record and first for 43 years.

1168/1. Laburnum anagyroides Medicus (Laburnum). Well established tree in old part of Newport rubbish Tip near allotments, ST38, TGE.

192/5. Trifolium avenaceum L. (Sea Clover). A plant on the sea wall (earth bank), Collister Plll, ST48, TGE. Much less common now than in the past due to management changes along the Severn shore.

207/2. Lathyrus nissolia L. (Grass Vetchling). Abundant in a number of sites: Newport, ST38; Caldicot, ST48; + and Sudbrook, ST58; all TGE.


254/4. Epilobium lanceolatum Sebastani & Mauri (Spear-leaved Willowherb). An uncommon Mona. plant but recorded from + the Nurtons, SOS0, EW; + and near St Maugham’s, SO41/42, Mr & Mrs P.C. Hall.

259/1. Myriophyllum verticillatum L. (Whorled Water-milfoil). A patch in reen, Magor, ST48, Dr P.R. Gladding. Rare in Monas.

283/4. Bupleurum tenuissimum L. (Slender Hare’s-ear). One plant, Magor, ST48, J.P. Curtils. First record at this site this century.

286/2. Petroselinum segetum (L.) Koch (Corn Parsley). Many small plants on sea bank near Artemisia maritima (Sea Wormwood), Magor Plll mouth, ST48, TGE.

289/1. Ammi majus L. (Bullwort). A weed coming up through a hydrangea in a Chepstow garden, ST59, TGE. A plant usually associated with tips in Monas.
*300/2. Oenanthe pimpinelloides L. (Corky-fruited Water-dropwort). One plant established on clayey roadside verge, Tynewydd, NW of Bettws, ST29, TGE. First v.c. and Welsh record.


*321/1. Fagopyrum esculentum Moench (Buckwheat). Numerous plants with Sinapis alba (White Mustard) in tiny section of maize field bounded on three sides by wood, W of Shirenewton, ST49, and one plant with deep pink flowers, Newport Tip, ST38, both TGE.

*428/1. Erius alpinus L. (Fairy Foxglove). Long established on old wall, Trewyn, SO32, TGE.


*437/1. Parentucellia viscosa (L.) Carol (Yellow Barbata). One plant on new bank of River Usk, Llanbadoc, Usk, ST39, Dr S.J. Tyler, conf. TGE.

*459/25. Stachys byzantina C. Koch (Lambsear). Disused railway station, with other garden throw-outs, Govilon near Abergavenny, SO21, SW.

*535/-. Artemisia biennis Willd. (Lesser Mugwort). Over 50 plants in Newport Docks, ST38, TGE & Manpower Services Team.

*544/3. Centaurea cyanus L. (Cornflower). One plant of the real cornflower weed in rye grass, Peterstone Grout, ST28, Alison Jones: unlike the garden escape near Denny View, Caldicot, ST48, TGE.


708/4. Alopecurus aequalis Sobol. (Orange Foxtail). Abundant around Penpergwm Pond SSSI site, SO30, TGE & BH. An extremely good year for this species at this site.

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


*585/1. Teesdalia nudicaulis (L.) R. Br. (Shepherd's Cress). Newly sown grass bank, Asda Superstore car park, Whitchurch, Cardiff, ST18, GIT, conf. J.P. Curtis. First record
since 1803 and first confirmed record, although only adventive at this new site.


1130/j. Petrophilia nanteuilii (Burnat) P.W. Bell & Heywood (Chiliding Pink). Growing abundantly on grassy bank behind electricity sub-station, Dare Valley Country Park, Aberdare, SN90, Miss H.J. Dawson. Second record. According to HJD, the probable source is nearby gardens, but established in grassland with no signs of disturbance.

1160/2. Salicornia dolichostachya Moss (a Glasswort). Saltmarsh, Loughor Bridge near Cwm, S559, BS11 Meeting, 1984, det. QONK.


11s/1w. Scorpiurus muriatus L. • Garden weed, Bonvilston, ST07, Mrs J. Littley, conf. RGE, 1974; garden weed, Llandaff, Cardiff, P. Jarvis, 1981, det. A. Grenfell; and base of wall, Cathays, Cardiff, R.J. Tidwell, both ST17, conf. RGE. First, second and third records since 1925.


1365/5/aq. Limonium procerum (C.E. Salmon) Ingrouille subsp. procerum (a Rock Sea-lavender). • Barry Holmes, S539; • Port Eynon Point, and Overton Cliff, both S546; • Whitford Burrows, S549; • Whiteshell Point, Pwilco, and Oxwich Burrows, both S556; • Crymlyn Burrows, S578; • Ogmore, S587; • Llantwit Major, S596; • Aberthaw, ST06; and Barry Island, ST16; all M.J. Ingrouille, 1979; in "The Limonium biseriavum aggregate (Plumbaginaceae) in the British Isles", (J. Linn. Soc. [Bot] (1986) 92: 177-217).

1397/1. Anchusa arvensis L. (Beb. (Bugloss). Newly made roadside bank, Pengam, Cardiff, ST27, JPC.

1420/2. Linaria purpurea L. (L.) Miller (Purple Toadflax). Spontaneous garden weed, both pink and purple forms, Rhiwbina, Cardiff, ST18, P. Dunn.

1509/3. Petasites japonicus (Siebold & Zucc.) Maxim. (Giant Butterbur). About 100 flowering spikes in damp woodland by River Ely, St Georges, ST07, Dr D.J. Thomas, 1983, conf. RGE. A new locality but not a new 10km square record.

625/1. Epipactis palustris (L.) Crantz (Marsh Helleborine). Disused quarry floor, Rhosoe, ST06, JPC.

1658/era. Cyperus eragrostis Lam. Industrial wasteland, W Bute East Dock, Cardiff, ST17, JPC & G.H., conf. E.J. Clement. Second v.c. record and first for over 100 years, but in same 10km square.


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


+162/1. Lamium amplexicaule L. (Henbit Dead-nettle). On recently constructed roadside verge, Glandulas, Llanefan Fawr, SN95, RGW.

RADNOR, v.c. 43 (comm. Miss A.C. Powell)

+4/7. Asplenium adiantum-nigrum L. (Black Spleenwort). Steep, shady rocks on verge of hill farm track, Llangunllo, SO17, ACP.

15/1. Polystichum aculeatum (L.) Roth. (Hard Shield-fern). Steep, shady rocks on verge of hill farm track, Llangunllo, SO17, ACP.


46/22b. Ranunculus peltatus Schrak. (Pond Water-crowfoot). Small pool, Llanfihangel Rhydithon, SO16, Cicely & John Fort; and deep hill pool, Bleddfa, SO27, ACP.


1177/1. Euonymus europaeus L. (Spindle). In quantity in woodland, Stanage Park near Knighton, SO37, RGW, 1983.


285/4. Aplum Inundatum (L.) Reichenb. fil. (Lesser Marshwort). Marshy ground near Darlarn, SO26; and pool on hill near Harpton, SO25, both C & JP.

320/6. Polygonum bistorta L. (Common Bistort). Horse grazed pasture, Buckyard Cottage, Cefnlys Rural, SO16, F. Everingham & CC, 1983; and hay meadow, Cae Cwm Bach, Llansantffraed Cwmdeuddwr, SN97, FE & CC.


372/4. Anagallis minima (L.) E.H.L. Krause (Chaffweed). On damp soil by small stream by road to Penrice Caeau, Llandello Graban, SO04, RGW. Second record, but in same 10km square as first.

1379/2. Vinca major L. (Greater Periwinkle). Roadside hedge, Erwood, SO04, ACP.

1422/2. Kickxia elatine (L.) Dumort. (Sharp-leaved Flueellen). On rubble used to infill on railway bridge, yr Allt, Llandello Graban, SO04, RGW. Second record.

432/1. Pedicularis palustris L. (Marsh Lousewort). Wet ground by hill stream, Bleddfa, SO16, ACP.

432/2. Pedicularis sylvatica L. (Lousewort). Wet flush, Cothhead End, Maelynydd, SO17, C & JP.
1445/5. Mentha spicata L. (Spearmint). Above Rhydspence, SO24, ACP.

1462/6. Lamium maculatum L. (Spotted Dead-nettle). Roadside near Dolyhir, SO25, RGF.


485/1. Gallium odoratum (L.) Scop. (Woodruff). Steep shady bank on verge of hill farm track, Llangunllo, SO17, ACP.


533/3. Cor. Chrysanthemum coronarium L. Appeared on cultivated soil in garden with Agrostemma githago (Cocksfoot), Llanwy, SO66, RGW.


558/1/217. Hieracium umbellatum L. subsp. umbellatum (a Hawkweed). Brittle Mountain, SO24, ACP, det. RGE.

558/1/219. Hieracium perpropiquum (Zahn) Druce (a Hawkweed). Roadside, Aberedwy, SO04, ACP, det. RGE.


Scirpus sestaeus L. (Bristle Club-rush). Damp stony verge of hillside track, Llandegley, SO16, with Senecio sylvaticus (Heath Groundsel) in quantity, ACP.


Melica uniflora Retz. (Wood Melick). Steep shady bank verge of hill farm track, Llangunllo, SO17, ACP.


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


Dryopteris carthusiana (VIII.) H.P. Fuchs (Narrow Buckler-fern). Frequent in recently cleared Quercus/Alnus woodland, drained and replanted with conifers, Maes Glas Farm, Llangadog, SN72, IKM.

Dryopteris semula (Ait.) Kunth (Hay-scented Buckler-fern). Twelve strongly growing plants, small wooded valley, Cwmcoch, Llanllwch, SN31, IKM.

Polypodium cambricum L. (Southern Polypody). On degraded Old Red Sandstone cliff, Dylan's Walk, Laugharne, SN31, IKM; several plants on limestone scree, Craig Ddu, Llanary, SN31, A.O. Chater, IKM & RDP; and on Quercus and Ulmus, Castle woods and Dynevor Deer Park, Llandelio, SN62, IKM. Previously only recorded in the county from old walls.


Dicentra formosa Walpers (Western Bleeding-heart). Naturalized on hedgebank, near Cwmam, SN64, AOC.

Erucastum gallicum (Willd.) O.E. Schultz (Hairy Rocket). Roadside waste ground, Cross Hands, SN51, Mrs A.M. Pell, det. R.G. Ellis. Second record and first since 1820.


Lunaria annua L. Banks of River Loughor, far from habitation, near Pantyffynnon, Ammanford, SN60, AMP.

Sagina apetala Ard. subsp. erecta (Hornem.) F. Hermann (Annual Pearlwort). Abundant on old railway siding W of Clynderwen station, SN11, Dr G. Hutchinson.

Sagina subulata (Swartz) C. Presl (Heath Pearlwort). Roadside bank, Cefn Llwydlo, SN84, RDP. Second record since 1908.
149/1d. Montia fontana L. subsp. variabilis Walters (Blinks). Wet mountain flush, Bryn Mawr, S of Afon Llechach, SN82, RGE & GH.

168/7. Geranium sanguineum L. (Bloody Crane’s-bill). • One plant, old limestone quarry, near The Green Bridge, Pendine, SN20, Llanelli Naturalists’ field meeting. • and churchyard, Maerdy, Talylaris, SN62, RDP, conf. RGE.

168/10. Geranium columbinum L. (Long-stalked Crane’s-bill). • Near Felin Cwrws, SN12, MKM; • roadside verge near Felingswm llael, SN42, RDP; • hedgebank, Aberdau, Llanwrda, SN63, GH; • and north shore of Usk Reservoir, SN32, T.S. Crosby.

•179/1. Rhamnus catharticus L. (Buckthorn). One bush in hedgerow, Gurn Farm, Myndd Selon, SN31, IKM. Fourth record and first since 1964.

•181/1. Vitis vinifera L. (Grape-vine). Hedge near Pantyffynnon station, Ammanford, SN61, AMP. Third record.

202/1. Ornithopus perpusillus L. (Bird’s-foot). • Dry sheep-grazed hilltop, with Moenchia erecta (Upright Chickweed), Mandinam, SN72, R.G. Woods, 1983; • and sheep-grazed bank, Crychan valley, SN83, GH.

$210/1. Fillipendula vulgaris Moench (Dropwort). • Chapelyard, Saron, Llangeler, SN33, AMP; • and Brechfa Churchyard, SN53, Dr E. Grey, 1984.


•229/1x2. Crataegus laevigata (Poiret) DC. x C. monogyna Jacq. • C. x media Kocher (a hybrid Hawthorn). Hedge, S of Trosstree Farm, Llanelli, with both parents, SS59, IKM, 1983, det. ADB. First record for the county, and the first confirmed Welsh record.

232/7. Sorbus torminalis (L.) Crantz (Wild Service-tree). One good specimen tree, together with two well-grown suckers within 0.5km of tree known since 1974, Stradey Woods, Llanelli, SN40, Llanelli Naturalists’ field meeting; and one tree, Poor Man’s Wood, Llandovery, SN73, L. Watts, 1984, rediscovery of specimen known to D. Davies, c. 1989. Four known plants in v.c. 44.

*14/Aue/jap. Anacuba japonica Thunb. (variegated forms called Spotted-laurel or Gold-dust-tree). Several self-sown seedlings in woodland, Gelliideg, Llandyfaelog, SN41, TSC. First Welsh record of this commonly cultivated shrub.

285/4. Aplium inundatum (L.) Rechb. fll. (Lesser Marshwort). • Marsh, Marros, SN20, IKM; • and one abnormally large plant growing in semi-shade in Teifi flood-plain drainage ditch, Clyblaidd, Pencarreg, SN54, BSBI Wales field meeting; considered this species by consensus of experts present.

•291/1. Carum verticillatum (L.) Koch (Whorled Caraway). Wet flush, Cothi valley near Darren fawr, Brechfa, SN52, West Wales Trust for Nature Conservation field meeting, det. RDP.
319/11. Euphorbia exigua L. (Dwarf Spurge). Chapelyards at Caersalem, Tycroes; and Bethany, Ammanford, both SN61, AMP. Second and third recent records.


437/1. Parentucellia viscosa (L.) Cardel (Yellow Bartsia). On verges of ride and locally dominant over large area of recently clear-felled pines, Pembrey Forest, SN40, WWTNC & Llanelli Nats. Joint field meeting, det. RDP.

439/1. Lathyrus aquamarina L. (Toothwort). About 15 flowering spikes on shady hedgebank under Corylus, Garn Farm, Mynydd Selon, SN51, IKM. Fifth record.


435/1. Cirsium vulgare L. (Wild Basil). Old limestone quarry, Craig Ddu, Llanynfi, SN31, IKM & P.S. Jones; Cellideg, Llandyfæleg, SN41, TSC; roadside hedgebank, near Gwempa, SN41, GH; + and limestone grassland, Garn Farm, Mynydd Selon, SN51, IKM.

483/2. Asperula cynanchica L. agg. (Squinancywort). On limestone scree and rocks, Garn fawr Quarry, near Bank y Mansel, SN51, IKM.

494/2. Valerianella carnata Lots. (Keeled-fruited Cornsalad). Abundant in chapel graveyard, Ammanford, SN61, AMP, det. RGE.


558/1. Hieracium lasiophyllum Koch (a Hawkweed). Frequent on base-rich cliffs, Craig Clyngwyn and Craig Ddu, SN74, NCC Wales Field Unit Upland Vegetation Survey No. W79/82, 1982. First and second records.

558/1/222. Hieracium salticola (Sundre) Sel & West (a Hawkweed). Railway embankment, Cynghordy, SN84, IMV, 1965; and disused railway sidings, Whittland, SN11, GH; both det JB. First and second records.


593/2. Lilium pyrenaicum Guan (Pyrenean Lily). Chapelyard, Saron, Llangeler, SN33, AMP.


605/7/fol. Juncus foliusus Desf. (a Toad Rush). Wet pasture, Cilybladdd, Pencarreg, SN54, BSBI Wales field meeting, det. RGE.

627/1. Spiranthes spiralis (L.) Chevall. (Autumn Lady's-tresses). * Four plants in dry dunes, Laugharne Burrows, SN20, S.B. Evans, JR & RDP, 1982; and 58 flowering plants counted in association with Gentianella amarella (Autumn Gentian), on old limestone spoil heaps and nearby calcareous grassland, Llandyfian, SN61, IKM.

638/1. Platanthera chlorantha (Custer) Reichenb. (Greater Butterfly-orchild). Three plants on roadside verge, Maudsland, SN33, B.J. Reely.

640/1. Opurys spinosa Hudson (Bee Orchid). * Coygen, Laugharne, SN20, R.H. Tyler, 1925, in 'Tyler's Book on Laugharne' compiled in 1925: 'The bee-orchis is found on Coygen, a limestone headland', not seen since, presumably destroyed by quarrying; about 12 flowering plants, Laugharne Burrows, SN20, JR, 1984; a second colony on Laugharne Burrows, near Ginat Point, SN30, JR; and seven spent spikes in closed ground cover of Hedera, Craig Ddu, Llanybri, SN31, IKM & PSJ, rediscovery of colony last seen in 1971. Five colonies now known from v.c. 44, four extant.

643/1x3. Dactylorhiza fuchsii (Drue) Sow x D. incarnata (L.) Soo * Sow x D. x kernerorum (Soo) Sow (a hybrid Orchild). Dune slack, W of Wichett Pool, Pendine Burrows, SN20, JR, 1984, det. RDP, conf. R.H. Roberts.


663/4x8. Carex demissa Hornem, x C. hostiana DC. (a hybrid Sedge). Nant yr ast, SN75, M & JI, det. AOC. Third record.

663/16x17. Carex rostrata Stokes x C. vesicaria L. * C. x involuta (Bab.) Syme (a hybrid Sedge). Substantial population at margin of deep pool in stream, Cefn Gwenfrawd, SN74, J & MI, det. AOC. Second record.

663/72. Carex curta Good. (White Sedge). Frequent in kettle-hole mire, Cilybladdd, Pencarreg, SN54, BSBI Wales field meeting.
706/S. Alopecurus bulbosus Gouan (Bulbous Foxtail). + Abundant in wet meadow by ditch, The Lees, Laugharne, SN20, E.A. Stanway; + and four small clumps in transition zone between brackish Phragmites reedbed and dry, unimproved grassland, Whitehill Down, Laugharne, SN21, L.R. Smith.

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

46/18. Ranunculus tripartitus DC. (Three-lobed Crowfoot). + Small population on path in wet heath, Waun Ffynnon, Clun, Goodwick, SM93, E. Gwynn; + 5–10 plants in shallow water of deep ditch, Strumble Head, SM84, SBE; + about 20 plants in shallow ditches, Gwaun, Solva, SM82, SBE & EG; a few hundred plants in small spring, West Wick, Skomer Island, SM70, SBE; and a major population to W of old station first found by T.A.W. Davis in 1963, Marloes Mere, SM70, SBE; also recorded from Skokholm (SM70) and Ramsey (+ SM62) Islands.

This winter annual is at present found in about 14 different locations, largely on the coastal fringe of Pembs., where it requires naturally open habitats or, more usually, shallow ditches, wet tracks or paths to flourish.


192/13. Trifolium subterraneum L. (Subterranean Clover). Lower Treginnis, St David’s, SM72, SBE & J.W. Donovan. Thousands of plants on shallow soil over rocky knolls adjacent to old farmyard. Carduus nutans (Musk Thistle) and Medicago arabica (Spotted Medick) were also nearby. These three species have prospered in Pembs. the last few years, due perhaps to the good summers of 1983 and 1984.

220/3/10. Alchemilla glabra Neygoff. (Smooth Lady’s-mantle). Over 15 plants in short, improved, cattle grazed pasture on level ground, Plas-dwbl, Myndachlogdu, SN12, SBE. Acid to neutral grassland that has had one application of calcified seaweed, not species rich.


*365/5/pra.a. Limonium procurrem (C.E. Salmon) Ingouville subsp. procurrem (a Rock Sea-lavender). + Sandy Haven Hill, Crabbhall Farm, and St Ann’s Head, all SM80; + Porthmynawyd, SM82; + Lawrenny, SN00; + St Govan’s Head, SR99; + Lystep Point, SS09; + and Giltar Point, SS19; all M.J. Ingouville, 1979+ in ‘The Limonium binervosum aggregate (Plumbaginaceae) in the British Isles’, (L. Linn. Soc. (Bot) (1986) 92: 177-217).


411/1. **Hyoscyamus niger** L. (Henbane). Over 35 first year plants on recently disturbed sand (on Golf Course fairway), Whitesands Dunes, St David's, SM72, D. Stephens & Mr & Mrs G.C. Lambourne. The last major disturbance at the site was during the 2nd World War. Other species of disturbed sand recorded, include *Solanum nigrum* (Black Nightshade) and *Viola tricolor* subsp. curtisii (E. Forst.) Syme (Wild Pansy).

642/5. **Orchis morto** L. (Green-winged Orchid). * Six spikes in short, species-rich, sward, Parish Church of St John the Baptist, Silebech, Haverfordwest, SN01, SBE. This churchyard has an exceptional flora. Of note are large stands of *Primula veris* (Cowslip), *P. vulgaris* (Primrose) and their hybrid *P. x tommasinii*, *Triquetum flavescens* (Yellow Oat-grass), *Galium mollugo* (Hedge-bedstraw), *Briza media* (Quaking-grass), *Listera ovata* (Twayblade), and *Avenula pubescens* (Downy Oat-grass); * Twelve spikes in turf over water storage tanks, Pen-y-bryn, Fishguard, SM93, SBE. The flora is rich neutral grassland with enormous populations of *Primula veris* (Cowslip); *Listera ovata* (Twayblade), *Orchis mascula* (Early-purple Orchid), *Kneatia arvensis* (Field Scabious) are also present in quantity. The site is cut once a year in August with a flail mower; and 176 spikes in short turf grazed by rabbits in dry fixed-dune slope, Freshwater East, SS09, JH, AL & MF.


683/6. **Bromus madritensis** L. (Compact Brome). Thousands of plants, Carew Castle, Carew, SN00, AL, MF & JH. Abundant on tops of castle walls and amongst calcareous grassland, rocky outcrops and rubble around foot of castle walls. This attractive grass, of questionable native status here, was first found at Carew Castle by J.L. Knapp in the early 19th Century. A specimen resides in Bristol Museum. A detailed survey of the population by the Pembs. Coast National Park in 1985 followed its rediscovery by JWD & Dr R.G. Crump in 1984. Notable associates include *Tortula nudosa* (L.) Gaertn. (Knotted Hedge-parley), *Carex divulsa* Stokes (Grey Sedge), *Triquetum flavescens* (L.) Beauv. (Yellow Oat-grass) and *Geranium columbinum* L. (Long-stalked Crane's-bill).

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

*5/1. Osmunda regalis L. (Royal Fern). One plant in damp hollow in rocks by Camddwr stream, SN75, D. Davies, c.1969.*

28/1. **Botrychium lunaria** (L.) Sw. (Moonwort). * Unimproved dry pasture above Pontrhyd-y-groes, SN77, D. Glyn Jones et al.; * and a similar site 2km W of Blaenpennal, SN66, DGJ. Unusually abundant at its other three extant sites this year.

29/1. **Ophioglossum vulgatum** L. (Adder's-tongue). * Unimproved dry pasture 2km W of Blaenpennal, SN66, DGJ; * and a similar site between Synod Inn and Plwmp, SN35, F. Evans & DGJ.

66/8. Fumaria officinalis L. subsp. wittgeni (Koch) Arcangeli (Common Fumitory). Edge of silage field, with Sherardia arvensis (Field Madder) and other locally uncommon weed species, between Coybal and Byrlip, 2km SW of New Quay, SN35, J.R. Akeroyd & C.D. Preston, det. P.D. Sell. First record for subsp.

80/2. Coronopus didymus (L.) Sm. (Lesser Swine-cress). Path by old limekiln, Cwm Tudu, SN35, AOC. Only the third post-1950 record.

13E/9. Sagina subulata (Sw.) C. Presl (Heath Pearlwort). Edge of Forestry Commission road W of Llyn Brianne, 700m NE of Dalar-wen, SN74, AOC & DD. A recent colonizer of this F.C. road system, along with Spergularia rubra (Sand Spurrey), and, apart from an old record from Strata Florida station, the only inland record.

148/1. Scirraaanthus annuus L. (Annual Knawel). Old track over rocky ridge S of Ynys-greiglog, Eglwys-fach, SN69, AOC. The only recent record from the northern half of the county.

192/1. Trifolium ornithopooides L. (Bird's-foot Clover). Beach S of Aberaeron harbour, SN46; and The Patch dunes, Gwbert, SN14, both J.R.A & CDP. First records since 1941.

206/16. Vicila lathyroides L. (Spring Vetch). Rocky ridge by footpath from Henllan church to Cae-crowd, SN34, AOC. The only inland site for this species otherwise known only from the Ynys-las and Gwbert sand dunes.

211/2. Rubus saxatilis L. (Stone Bramble). Rock ledge by waterfall under oaks in stream gorge in conifer forest on W side of Llyn Brianne, SN74, AOC & DD. Third record, growing with Gynnocharaum dryopteris (Oak Fern), Trollius europaeus (Globeflower) etc. in the relic damp woodland surrounded by conifers.

220/3/10. Alchemilla glabra Neygenf. (Smooth Lady's-mantle). Scattered throughout meadow 200m NW of Pont Llanio railway bridge, SN65, AOC.

320/17. Lepidium squalaneum (Friedrich Schmidt Petrop.) Nakai (Giant Knobweed). Several large colonies occupying much of Moor Wood, Highmead, SN54, AOC; * and a colony in damp woodland 250m SW of Highmead mansion, SN44, AOC. The colonies in Moor Wood, a mixed wood with much alder carr on the Teifi plain, are by far the largest in the county.

325/4. Rumex hydrolapathum Hudson (Water Dock). Many hundreds of plants by pond in woodland 250m SW of Highmead mansion, SN44, AOC. Probably arrived here naturally, as present on the Teifi only 800m distant in SN54.


417/1. Misopates orontium (L.) Raf. (Lesser Snapdragon). Edge of barley field above Carreg Wynt, Aber-porth, SN35, A.P. Fowles. Third record since 1950, the other two being from similar coastal fields, near New Quay and Tresaith.


481/1. Sherardia arvensis L. (Field Madder). By caravans on sand dunes, The Patch, Gwbert, SN14, AOC; * and edge of field between Coybal and Byrlip, 2km SW of New Quay, SN35, AOC.
1506/18. Senecio bicolor (Willd.) Tod. subsp. cineraria (DC.) Chater (Silver Ragwort). Several plants well-established on bank of bench south of the harbour, Aberaeron, SN46, AOC.

1506/18x1. Senecio bicolor (Willd.) Tod. subsp. cineraria (DC.) Chater x jacobaea L. 

S. x albescens Burbidge & Colgan. Growing with both parents on bank of shingle beach S of Aberaeron harbour, SN46, AOC. Second record.

1552/2. Tragopogon portulacolla L. (Salsify). Roadside S of Aberaeron harbour, SN46, JRA & CDP.

1558/I/144. Hieracium angustisquammum (Pugsley.) Pugsley. (a Hawkweed). Rocks by stream in Nant Rhuaddn gorge, SN87, AOC, det. PDS. First record for Wales of this species which occurs in a few sites in S. England, E. Ireland and W. Scotland.

1640/1. Ophrys sphegodes Hudson (Bee Orchid). The Patch dunes. Gwbert, SN14, JRA & CDP. Last seen here in 1974 (Mrs R. Bowen), and previously only by Charles Oldham.

1646/1. Acorus calamus L. (Sweet-flag). Dominant over an area 25x10m, and scattered elsewhere, in overgrown pond in copse 250m SW of Henfy, Highmead, SN44, AOC. Not flowering, probably originally introduced but this pond has been undisturbed for many decades and contains no other introduced species.

1660/1. Rhynchospora alba (L.) Vahl (White Beak-sedge). Peaty pool, Llwyndyrwedd NNR, SN45, APF. First record for the SW half of the county.

1663/2. Carex distans L. (Distant Sedge). Rock ledge above beach at mouth of Afon Soden, SN35, CDP & BSBI Field Meeting. Previously known only from the Dyfi estuary and by the Clarach stream in the north of the county.


1666/1. Aruncus janaeusensis Gamble (a Bamboo). Several large thickets, well-established in damp mixed woodland 200m SW of Highmead mansion, SN44, AOC, det. D. McClymont. First Welsh record, growing with two other bamboos Sasa palmata and Arundinaria japonica.

1676/3. Pom compressa L. (Flattened Meadow-grass). Top of old mortared wall behind Carpenter Hall, backing onto Queen's Road, Aberystwyth, SN38, AOC. Now known from 9 sites in the county, all walls.

1700/1. Calamagrostis ephelos L. Roth (Wood Small-reed). Dense colony 80x25m on steep slope above sea 500m WSW of Traeth y Môr, SN15, AOC. Second record.

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

3/2. Isocetes echinoeopatra Dureau (Spring Quillwort). Southern end of Llyn Bugellion and several other pools, SN189, and margin of Llyn Pen-rhainadr, SN79, all A. J. Morton.


13/1. Moehlingia erucoides (L.) P. Gaertner, B. Meyer & Scherb. (Upright Chickweed). Rocky outcrops on Todfeith Hill, SO29; and rocky outcrops on Corndon Hill, SO39, both MFP field meetings.

143/1. Spergularia rubra (L.) J. & C. Presl (Sand Spurrey). On shallow soil, Darowen, SH80, PMB; and occasional on tracks in Hafren Forest, SN89, AJM.

149/1b. Moattia fontana L. subsp. chondrosporum (Fenzl) Walters (Blinks). Seasonally damp, very shallow soil deposit over flat rock outcrop, Pen-y-graig, Darowen, SH80, PMB & MFP recording party. Second record.


254/3x9. Epilobium montanum L. x E. obscurum Schreber = E. x aggregatum Celak (a hybrid Willowherb). One plant near both parents in vegetable garden, Llwydliarth Hall, Aberllefenni, SH71, PMB, SG, AM & DEMP. First localized record.


291/1. Carum verticillatum (L.) Koch (Whorled Caraway). Boggy ground in the Ceirig valley SH80, MFP field meeting.

350/1. Androseda polifolia L. (Dog-rosemary). Growing on moribund tussocks of Eriophorum vaginatum (Here's-tall Cotton-grass), near Bugellyn, SN89, AJM.

420/3x4. Linaria repens (L.) Miller x L. vulgaris Miller = L. x sepalum Allman (a hybrid Toadflax). One plant with both parents, railway yard, Machynlleth station, SH70, B. Gale & MFP recording party.

430/22. Veronica polita Fries (Grey Field-speedwell). Weed in gardens, Powis Castle, Welshpool, SJ20, PMB.

440/3. Orobanche ramos-genistae Thun. (Greater Broomrape). Three or four plants growing on broom, near Roundton, SO29, Mrs J.M. Roper.
*465/4/2. Galeopsis bifida Boenn. (Lesser Hemp-nettle). - Grassy roadside bank, Pont ar Bylifa, 3km E of Mallwyd, SH81; + one plant seen in neutral deciduous woodland, Cwm Nant-y-melchlad, SJ11; + and in good quantity on roadside bank W of Plas Coch, 3.5km N of Llanfair Caereinion, SJ01, all PMB & MW. First, second and third records. On many roadside verges in SJ01, often as common as G. tetrahit (Common Hemp-nettle); also recorded from + SH80.

*465/4/2x1. Galeopsis bifida Boenn. x G. tetrahit L. - G. x ludwigi Hausskn. (a hybrid Hemp-nettle). One plant with both parents on grassy roadside bank, Pont ar Bylifa, 3km E of Mallwyd, SH81, PMB & MW.

494/2. Valerianella carinata Loisel. (Keeled-fruited Cornsalad). On grassy banks near Priest Weston and southwest side of Todieth Hill, both SO29, JMR, conf. PMB.

*506/18x1. Senecio bicolor (Willd.) Tod. subsp. cineraria (DC.) Chater x S. jacobaea L. - S. x albecens Burbidge & Colgan (a hybrid Ragwort). One plant with several of S. jacobaea (Common Ragwort), on recently disturbed soil, north side of Newtown road at Felin-gerrig, 1 mile E of Machynlleth, SH70, C.A. Small, det. PMB.

*542/1. Onopordon acanthium L. (Cotton Thistle). Waste ground on roadside E of Churchstoke, SO29, JMR.


605/18x19. Juncus acutiflorus Hoffm. x J. articulatus L. - J. x surrejanus Druce (a hybrid Rush). + in quantity with J. acutiflorus (Sharp-flowered Rush), in valley bog, 1km E of Pont Crugnant, SN89, PMB & MFP recording party; + and with both parents in damp, species-rich meadow, Cwm Nant-y-melchlad, SJ11, PMB.

*663/8x4. Carex demissa Hornem. x C. hostiana DC. (a hybrid Sedge). Boggy flush near Conron Cottage, Conron Hill, SO39, PMB & EDP, 1981; + boggy flush on southwest side of Lan Fawr, Conron Hill, SO29, JMR, 1984, det. L.C. Trueman; + and in quantity with both parents above Pont Crugnant, SN89, PMB. First second and third records.


MERIONETH, v.c. 48 (comm. P.M. Benoit)

*420/2x3. Linaria purpurea (L.) Miller x L. repens (L.) Miller - L. x dominii Druce (a hybrid Toadflax). With both parents by fence between railway ballast and road tarmac, Penrhynedraeth, by the approach road to Pont Brewllt, opposite chemical works, SH63, Miss A.P. Conolly, 1983 & 1984, det. C.A. Stace.

*1441/4. Pinguicula grandiflora Lam. (Large-flowered Butterwort). Basic boggy rill, Brithdir near Dolgelau, SH71, PMB, 1983. New to Wales, probably planted, growing in a completely natural habitat (with P. vulgaris (Common Butterwort), but only two plants found despite search; there is a cottage with a garden close by.


4/1. Equisetum sylvaticum L. (Wood Horsetail). In fair quantity on wooded slope above Afon Llyfn, towards Pont-y-Cwm, SH45, D.J.

15/1. Asplenium viride Hudson (Green Spleenwort). One plant on west facing cliffs, Mynydd Drws-y-Coed, SH55, D.J.

16/1. Cetraria officinarum DC. (Rustyback). In fair quantity on perimeter wall of Salem Chapel, Llanilyfn, SH45, D.J.


24/3. Phegopteris connectilis (Michx) Watt (Beech Fern). One plant in Cwmgward, SH44; and in good quantity at Cwm Marchnad, Mynydd Drws-y-Coed, SH55, both D.J.

37/1. Trollius europaeus L. (Globe-flower). Four plants on west-facing cliff between Mynydd Drws-y-Coed and Trum-y-Ddysgl, SH55, D.J.


61/1. Glaucium flavum Crantz (Yellow Horned-poppy). In fair quantity along Pontyfynl beach, and northwards near Ty Mawr Farm, SH45, D.J.

152/1. Chelidonium majus L. (Greater Celandine). At three sites in the village of Pen-y-Groes, SH45, D.J.


131/3. Cerastium tomentosum L. (Snow-in-summer). Seen every year since 1981 in thriving quantity on earth wall at Dolydd near Groeslon, SH45, D.J.

164/2. Lavatera cretica L. (Smaller Tree-mallow). Wood, Muriau near Criccleth, SH43, REH, 1984, conf. RGE.

166/2. Linum usitatissimum L. (Flax). In abundance near Abersoch, SH32, Miss A. P. Conolly.


225/15. Rosa micrantha Sm. (Small-flowered Sweet-brier). Field hedge away from houses, W of Morfa Nefyn, SH24, APC.


1320/18. Fallopia subbotil (Louis Henry) J. Holub (Russian-vine). Growing well on waste ground, near Mynytho, SH33, APC. Second record.
1341/2. Quercus ilex L. (Evergreen Oak). One tree near Plaslyn, Cwmystwyth, SH154, DJ.


358/A. Vaccinium oxyccocos L. (Cranberry). In small quantity at Cors Caer Efa Lwyd, near Pen-y-Groes, SH45, DJ.


367/3. Primula veris L. (Cowslip). Between 10 and 15 plants in field near junction of Nant-y-Garth and Bangor road; and near Old Rectory, Llanbedriolen, in very good quantity this year, due to field being grazed by cattle instead of sheep, both SH36, DJ.

382/4x6. Centaurea erythraea Rafn × C. littorale (D. Turner) Gilmour (a hybrid Centaur). Drift sea cliff, E of Porth lago and W of Porth Ferrin, SH13, APC.

386/1. Menyanthes trifoliata L. (Bogbean). In fair quantity at Cors Efa Lwyd, near Pen-y-Groes, SH45, DJ.


400/7. Myosotis sylvatica Hoffm. (Wood Forget-me-not). One patch on roadside at Lon Dwr, Llanllyfn, SH45, DJ. Second record for the County and the first post-1930.


445/5x7. Mentha spicata L. × M. suaveolens Ehrh. × M. x villosa Hudson mm. alopecuroides (Hull) Br. (Apple Mint). Mynydd Clian, SH22, APC, conf. RMH.


446/1. Lycopus europaeus L. (Gipsywort). In small quantity on the southern shore of Llyn Nanlle, SH55, DJ.

455/2. Artemisia ludoviciana Lamotte (Chinese Mugwort). Well established on waste ground near Mynynytho, SH33, APC. Third record.
Mycelis muralis (L.) Dumort. (Wall Lettuce). On made up ground with
'toilet' slate, c. 2km NE of Botwnog, SH23, APC.

Crepis paludosa (L.) Moench (Marsh Hawk's-beard). At Cors Caer Efa Lwyd, near
Pen-y-Groes, SH45, DJ & RL.

Allium plantago-aquatica L. (Water-plantain). Ditches around Pontilyfni in
good quantity, SH45, DJ.

Zannichellia palustris L. (Horned Pondweed). Near Porth Meudwy, SH12, APC.

Juncus acutiflorus Hoffm. × J. articulatus L. = J. x surrej anus Druce (a
hybrid Rush). Partly drained isolated area of base-rich fen, Cors Geirch, SH33;
lightly grazed riverside marsh, east side of Afon Dwyfach, near Pant Glas, SH44;
and marsh by river, west side of Afon Cedron, Llyn Ystumilyn, E of Criccleth, SH53,
all T.H. Blackstock, 1983.

Galanthus nivalis L. (Snowdrop). By Afon Daron, near bridge, Bodwrdda near
Aberdaron, SH12, Miss E.G. Roberts, 1984. First record for Lleyn, but obviously an
escape.

Epipactis helleborine (L.) Crantz (Broad-leaved Helleborine). Three plants in
Fachwen woods, SH56, DJ.

Dactylorhiza fuchsii (Druce) Soo (Common Spotted-orchid). Eight plants on
steep grassy bank at Gywn Goch beach, SH44, DJ.

Dactylorhiza purpurea (T. & T.A. Stebb.) Soo (Northern Marsh-orchid).
Upwards of 50 plants in disused gravel pit at Pen-y-Groes, SH45, DJ.

Typha latifolia L. (Bulrush). In fair quantity in swampy area below
Cae-hoeden, between Llanrug and Caeathro, SH56, DJ.

Cyperus longus L. (Galingale). Steep slope of wet gravelly soil near sea,
Penllhiol, SH53, L.J. Larsen. First record for SW Caerns and second county record.

Carex laevigata Sm. (Smooth-stalked Sedge). A few plants at Cwmgwarad, SH44;
and in a small wooded field at the bottom end of Allt Goch near Pen-y-Groes, SH45,
both DJ.

Carex sylvatica Hudson (Wood-sedge). A few plants in wooded field below
Elithog, opposite southern perimeter wall of Glynlyfon Estate, SH45, DJ.

Carex paniculata L. (Greater Tussock-sedge). In fair quantity approx. 1 mile
SE of Llanaelhaearn, SH34; and plentiful at Cors Efa Lwyd, near Pen-y-Groes, SH45,
both DJ.

Carex otrubae Podp. (False Fox-sedge). Plentiful below Ty Mawr Farm,
Pontilyfni; and also in fair quantity at Foryd Bay, both SH45, DJ.

Carex curta Good. (White Sedge). Sparingly around the shore of Llyn Nantlle,
SH55, DJ.

Bromus hordeaceus L. subsp. ferronii (Mabille) P.M. Smith (Least
Smith.


*689/1. Koeleria macrantha (Lede.) Schultes (Crested Hair-grass). South end of Mynydd Cllan, SH22, APC, conf. CAS.

*691/1. Triaeuma flavescens (L.) Beauv. (Yellow Oat-grass). Near Abersoch, SH32, APC. Introduced, probably in grass seed.

*714/2. Parapholis incurva (L.) C.E. Hubbard (Curved Hard-grass). In open community on eroding drift cliff above the beach at Porth Ysgadan, SH23, J.R. Akeroyd.

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

50/1. Thalictrum flavum L. (Common Meadow-rue). Rough wet ground near Iltut, SJ45, G. Kay.

*68/1. Erucastrum galliacum (Willd.) O.E. Schultz (Hairy Rocket). Single plant on disturbed ground by Offa's Dyke path, near Ruthin, SJ15, JAG.

*176/2. Raphistrum rugosum (L.) All. subsp. rugosum (Bastard Cabbage). Single plant on disturbed ground by field pond, Fenn's old Hall, near Bronington, SJ53, JAG.

85/1. Toedalia nudicaulis (L.) R. Br. (Shepherd's Cress). Abundant along half a mile of gravelly road edge, Glyndyrfrdiwy, near Corwen, SJ14, JAG.

*133/3. Stellaria pallida (Dumort.) Pire (Lesser Chickweed). In short mown grass inside the walls of Denbigh Castle, SJ06, JAG.

*1149/3. Mizia albitica (L.) Howell (Pink Purslane). By a stream in an isolated wood, Caerwys, SJ17, JAG.


*154/14. Chenopodium rubrum L. (Red Goosefoot). Several very large plants on plies of loose soil on Chirk town tip, Halton, near Chirk, SJ33, JAG.


*192/24. Trifolium micranthum Viv. (Slender Trefoli). Arable weed on Pant-y-chochain Farm, near Wrexham, SJ35, AGS.

206/16. Vicia lathyroides L. (Spring Vetch). Short grass on sand dunes, Kinmel Bay, SH98, JAG.

207/2. Lathyrus nissolia L. (Grass Vetchling). A few plants in Pant Quarry, Cresford, SJ35, AGS.

35
222/1. Sanguisorba officinalis L. (Great Burnet). Damp ditch near the sea, Kinmel Bay, SJ198, JAG.

263/1. Viscum album L. (Mistletoe). Single plant on old hawthorn, Manor Farm, Erddig, SJ33, AGS.

288/1. Cicuta virosa L. (Cowbane). Abundant in ponds near Horseman's Green, SJ44, JAG.

297/1. Berula erecta (Hudson) Coville (Lesser Water-parsnip). Wet ditch by River Clywedog, near Wrexham, SJ34, JAG.

300/1. Oenanthe fistulosa L. (Tubular Water-dropwort). Pond, Marchwiel Old Hall, SJ34, AGS.

300/6. Oenanthe aquatica (L.) Poiret (Fine-leaved Water-dropwort). Edges of farm pond near Overton, SJ34, JAG; and farm pond near Coxswood lane, Llŷn, SJ35, AGS.

320/13. Polygonum affine Schrank (Tasteless Water-pepper). Growing with other species of Polygonum, Oenanthe aquatica (Fine-leaved Water-dropwort) and Sparganium erectum (Branched Bur-reed) at edge of pond in field near Overton, SJ34, JAG, det. J.R. Akeroyd.


343/13x12. Salix aurita L. × S. cinerea L. × S. x multinervis Doll (a hybrid Willow). Bank of field pond near Bronington, SJ52, JAG.

352/1. Pernettya mucronata (L. (ll) Gaudich. (Prickly Heath). Thriving over 100 sq. metres of steep hillside, Nant y Ffrith, SJ25, AGS.

368/1. Hottontia palustris L. (Water-violet). Field pond near Overton, SJ34, JAG.

413/1. Solanum nigrum L. (Black Nightshade). Chirk town tip, near Halton, SJ33, JAG.


459/5x7. Stachys palustris L. × S. sylvatica L. × S. x ambigua Sm. (a hybrid Woundwort). With both parents on bank of River Clywedog near Reddeth, Wrexham, SJ34, M. Rogers & G. Kay.

506/13. Senecio nutans Willd. (Broad-leaved Ragwort). Flourishing new colony along River Dee, Holt, SJ45, AGS.

512/1. Inula helenium L. (Elecampane). Small colony in Nant y Ffrith, SJ25, AGS.

538/1. Arctium lappa L. (Greater Burdock). Field grazed by cows, near Overton, SJ34, GK.

541/1. Silybum marianum (L.) Gaertner (Milk Thistle). Small colony, Nant y Ffrith, SJ25, AGS.

544/1. Centaurea scabiosa L. (Greater Knapweed). Now facing bank at field edge, unmown but open to grazing after meadow is cut for hay, Hope Mountain, SJ25, AGS.
Luronium natans (L.) Rafn (Floating Water-plantain). Two small canal-side colonies, Bryn-yr-Eos, near Frongysyllte, SJ24, MR, conf. AGS.

Osmorrhagium umbellatum L. (Star-of-Bethlehem). Small colony on waste ground near Berris, Wrexham, SJ35, AGS.

Juncus subnodulosus Schrank (Blunt-flowered Rush). Small colony, Cefn Park Estate, Wrexham, SJ35, AGS.

Carex hirta L. (Ha!ry Sedge). Wet flushes on steep slope of Dee valley, Wynnstay Estate near Newbridge, SJ24, AGS.


Carex divulsa Stokes subsp. leersii (Kneuker) W. Koch (Grey Sedge). Steep slope, south side of Denbigh Castle, SJ06, JAG, det. AOC.

Carex spicata Hudson (Spiked Sedge). Waste ground, Acrefair Industrial Estate, SJ34, JAG, det. AOC.

Carex muricata L. subsp. lamprocarpa Celax (Small-tufted Prickly-sedge). Near Maen y goron, Rhewl, Llangollen, SJ14, JAG, det. AOC.

Glyceria flaccida Breb. (Small Sweet-grass). Wet lowland ground, Plas Jolyne near Pentrefoelas, SH85, JAG.

Glyceria maxima (Hartman) Holmberg (Reed Sweet-grass). Chirk town tip near Halton, SJ33, JAG.

Setaria viridis (L.) Beauv. (Green Bristle-grass). Edge of road opposite Ty Gwyn Farm, Mochdre, SH87, E. Phenna. Second record.

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

Thlaspi arvense L. (Field Penny-cress). Rough limestone grassland above Ffynnon Beuno, Tremelrichon, SJ07, Mrs J.A. Green & GW.

Stellaria palida (Dumort.) Pire (Lesser Chick-wort). Limestone grassland, Craig, Tremelrichon, SJ07, JAG. Second record.


Daphne mezereum L. (Mezereum). One small shrub in flower, Ddol Uchaf nature reserve, SJ17, Dr B. Ing. Probably a garden escape.

Tortula nodosa (L.) Gaertner (Knotted Hedge-parsley). Dry limestone slope above Ffynnon Beuno, Tremelrichon, SJ07, JAG & GW.

Euphorbia lathyris L. (Caper Spurge). Disturbed ground in public house car park, Tremelrichon, SJ07, JAG. Second recent record, probably a garden escape.


509/3. Petasites japonicus (Siebold & Zucc.) Maxim. (Giant Butterbur). About 80 plants on rough roadside waste ground, possibly a garden dump - but not near houses, between Aelwyd Uchaf and Toledo Farm, Tremelirchion, SJ07, Mrs M. Wild.

607/e. Allium oleraceum L. (Field Garlic). Farm lane, Mynydd Llan, Ysceiflog, SJ17, Miss J. Hughes.

679/1. Neottia nidus-avis (L.) L.C.M. Richard (Bird's-nest Orchid). Two plants in deep beech/sycamore leaf litter, Coed Fron-drain, S of Cilcain Hall, SJ16, leuan ap Sion & GW.

663/4. Carex hostiana DC. (Tawny Sedge). Upland mire above Bryn Ffynnon, Nannerch, SJ16, GW, det. A.O. Chater. (This record was published in ‘Welsh Plant Records 1983-84’, Welsh Bulletin No. 42, p. 52, but with the wrong grid reference (SJ17) which should be corrected.)

663/11. Carex extensa Good. (Long-bracted Sedge). Edge of brackish pool near Point of Ayr, SJ18, JAG.


674/2. Desmazeria marina (L.) Druce (Sea Fern-grass). Sand dunes, Talacre, SJ18, JAG & GW.

ANGLESEY, v.c. 52 (comm. R.I.L. Roberts)

1/1. Hyperzia selago (L.) Bernh. ex Schrank & Mart. (Fir Clubmoss). Rock outcrop, Newborough Forest, SH36, J. Smith, conf. RHR.


75/1. Crambe maritima L. (Sea-kale). Hen Borth, SH39; between Trearddur and Porth-y-post, SH27; near Porth-y-garan, SH27; and Traeth Bychan, SH58; below Tendinas, SH58; all PD.


113/5. Viola reichenbachiana Jord. ex Boreau (Early Dog-violet). Hazel scrub near Cors Erdreinlog, SH48, LJC.


223/1. Sanguisorba minor Scop. subsp. minor (Salad Burnet). Sandy grassland, Porth Dafarch, SH28, PD.

225/15. Rosa micrantha Borrer ex Sm. (Small-flowered Sweet-briar). Limestone scrub, Marlanglas, SH58, RHR.

274/1. Anthracus caucalis Bleb. (Bur Chervil). Bodorgan headland, SH36, PD, conf. RHR.


392/6. Symphytum tuberosum L. (Tuborous Comfrey). Waste ground, Marlanglas, SH52, RHR.

407/3. Cuscuta epithymum (L.) L. (Dodder). • Heath, Porth-y-garan, SH27; • and sandy pasture, Porth Dafarch, SH28; parasitic on Thymus at both places, PD).


487/1. Sambucus ebulus L. (Dwarf Elder). Waste ground, Hendref Street, Newborough, SH46, Dr E. Lacey.

535/7. Artemisia maritima L. (Sea Wormwood). Offshore islet, Bodorgan head, SH36, PD. Re-found in the locality where it was known to Hugh Davies in 1813.

598/1. Ornithogalum umbellatum L. (Star-of-Bethlehem). Near cliff-tops, Moelfre, SH58, BRF.

605/7/fol. Juncus foliusus Desf. (a Toad Rush). Cerrig-moelion fen, and near Porth-y-garan, SH27, RHR & PD.
605/7/amb. Juncus ambiguus Guss. (Toad Rush). Lleiniog meadows, SH67, THB.


653/2. Typha angustifolia L. (Lesser Bulrush). Ditch, Ty'n Llan, Cemlyn, SH39, LJH.

654/3. Eriophorum latifolium Hoppe (Broad-leaved Cottongrass). Near Rhosmeirch, SH47, PD.


673/2. Puccinella distans (Jacq.) Parl. (Reflexed Saltmarsh-grass). Beaumaris Green, SH67, RMB.

700/1. Calamagrostis epigeios (L.) Roth (Wood Small-reed). Cliff-top scrub, Fedw Fawr, SH58; under Bodowen, SH36; Porth Eilian, SH49; and near Pentre Gwyddel, SH27; all PD.