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Front Cover image: Linaria supina (Prostrate Toadflax) found at the old site of the Carmarthen Bay Power Station © John Crellin. See page 6.

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Images 2, 4 and 5: Silene gallica (Small-flowered Catchfly) at Burry Port West Dock. See page 6. (Image 2 © Richard Pryce, image 4 © John Crellin, image 5 © B. Brown).

Image 3: Myosotis discolor ssp. dubia (Changing Forget-me-not) at Capel Dyddgen SSSI on the second fieldtrip of the AGM. © Pete Stroh. See page 6.

Items for inclusion in the next Welsh Bulletin should be sent to Richard Pryce by 1st Dec 2019: Pryceeco@aol.co.uk

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See www.bsbi.org.uk/wales.html for back issues. Printed versions of some back issues are still available on request @ £2.50 per issue; please contact Sally Whyman or Katherine Slade. Cheques are payable to BSBI (the BSBI Wales bank account has now closed). Future issues are available to BSBI members living outside of Wales by sending £2.50 in advance.
**Liz Howe** (1959-2019) joined the BSBI in 1990 and was a key to its relationship with the Countryside Council for Wales (lately Natural Resources Wales), where she headed both the Phase I Habitat Survey and Species Teams. Her work there helped to create the flood of plant species records, the BSBI Wales Officer post, the BSBI Distribution Database and much else of benefit to botany here in Wales. You can read and hear more about Liz in two very good tributes, in the 5/5/19 “Guardian” and on the 10/5/19 edition of Radio 4’s “Last Word” (both available online) but we thought that, with the kind permission of her family, readers might like to share some of her own ‘Last Words’, originally written for friends and colleagues in the field of conservation, as a ‘Guest Editorial’ here.

**Ecology**

I was fortunate to be working in the Welsh countryside for all of my working life with some amazing, knowledgeable people – all experts and specialists. Short contracts, the heavenly Phase I habitat survey, bats, newts, running contracts and helping to steer Species and Habitats experts through the maze of changing bureaucracy, process and obfuscation. Seeing agri-environment schemes come and go along with their trained staff was a frustration… some good done but not focussed enough and far too short – sympathetic management needs to be in place a long time to improve habitat condition. Advances in technology for GIS, LIDAR, earth observation are great but you still need ground-truthing and I still like to eyeball aerial photos. There has been so much new legislation that should help protect and expand wildlife but will we ever sort out our priorities?

Completing the Habitat Survey of Wales book with Tim Blackstock, David Stevens and colleagues (Blackstock et al, 2010) was probably the highlight of my career. Please make sure the baseline is used, fight ignorance of its scope, accept its limitations, but above all, keep vegetation skills alive and well in Wales. Please, please make sure that the Peatland Survey of Wales is completed, given time to be written up and added to our exceptional resource of detailed habitat survey data.

Of course, the reality never quite matches the possibilities or expectations, as generally time-limited projects, policies and schemes need to be longer and with guaranteed funding to do good. Despite this, we soldier on to do the best we can with limited resources for species and habitats, the linchpins or whatever is the current collective catchphrase. With bankers and all sorts of other professions talking about their ‘ecosystems’ perhaps we need to get back to basics.
The SSSI and NNR series (who knows what will happen to SPA/SACs) should underpin our conservation efforts. Why not glance through Derek Ratcliffe’s Nature Conservation Review volumes (Ratcliffe, 1977)? Look at the pictures and remind yourselves that these sites are part of a UK network chosen on UK criteria that sits as a representation of the Atlantic seaboard fauna and flora and habitats that echoes the millenia of man’s interaction with the land. Wales is not an island, it is part of the GB landmass and we should acknowledge the interchanges that occur across such a small island and the great migratory routes of the world on this little patch on the edge of Europe. Of course, for many of our organisms, close proximity of enough suitable habitat is essential, their propagules don’t necessarily move far enough to find tiny, isolated patches. So attention is needed for all scales of habitat heterogeneity, temporal as well as spatial. Don’t forget, species may need very different conditions at different times in their life stages.

John Lawton’s “more, bigger, better quality, better joined up” (Lawton, 2010) is a great shorthand message. But, dare I say it, the elephant in the room is how on earth do we extensify habitats, reduce grazing and chemical pressure from methane and ammonia, and generally make the wider countryside more suitable in the face of needing to produce food and space for people? Spatial planning may help in some places… but it won’t work everywhere. You need red lines. Favourite fact: ½ of Wales (1,000,000 ha) is improved rye grass grassland. What could we do with that?

I always want to speak up for the rare, small, scattered ‘specialist’ habitats: the ones that often support similarly challenged species. They cannot be rolled up into the generality of conservation but need special attention and protection and proper management.

Reptiles and amphibians have been a focus of mine, their needs often being overlooked, and ignorance of appropriate management for vertebrates is such a surprise. We need better records, a UK monitoring scheme and greater cooperation from land managers. Please support ARC (Amphibian and Reptile Conservation Trust) in its projects.

Climate change is obviously going to be a big challenge and a driver for a lot of what you do… I hope, but don’t overegg the benefits of the mitigation work that we’ve done to date.

So, eco rant over. I wish you all well in whatever posts you find yourselves in the new world of Welsh conservation but please don’t forget the species and habitats when plying your trade.
BSBI members savour the delights of Carmarthenshire at the Wales annual meeting

RICHARD PRYCE & BARBARA BROWN

What better excuse to enjoy some late spring sunshine and botanising than the BSBI Wales Spring Meeting and AGM? This was held between Tuesday 21st of May and Thursday 23rd at the Stradey Park Hotel in Llanelli and a packed programme had been prepared by Richard and Kath Pryce (VCRs for Carmarthenshire).

Members arrived after lunch on Tuesday and set out for Burry Port Harbour. Richard led us through the various brown-field and disturbed dune habitats, pointing out the plant highlights, which, at the west dock, included seventeen plants of Silene gallica (Small-flowered Catchfly) at its only site in the county (see images 2, 4 & 5 on page 2). Nearby, the differences between Ranunculus sardous (Hairy Buttercup) and R. bulbosus (Bulbous Buttercup) were demonstrated by Julian Woodman where both species were growing in close proximity. On the disturbed dunes, Silene conica (Sand Catchfly), Trifolium scabrum (Rough Clover), T. striatum (Knotted Clover) and Poterium sanguisorba ssp. balearicum (Fodder Burnet) were seen associated with large populations of Anisantha diandra (Great Brome), its identity being confirmed...
later by Graeme Kay. *Poa bulbosa* (Bulbous Meadow-grass) was discovered by Julian and found to be locally abundant but totally desiccated this late in the spring, which, despite being easily identified by the bulbous based culms, was the first county record. Finally, several plants of the lovely *Linaria supina* (Prostrate Toadflax) were shown to the party scattered on the rubbly, mostly vegetated, crushed-concrete site of the Carmarthen Bay Power Station, demolished in 1992 (see image on front cover).

In the evening Richard gave a talk on more than 40 years of botanising in Carmarthenshire describing how he was gradually drawn away from geology to botany whilst working for the National Coal Board. He paid tribute to early inspiration from Barry Goater, his school biology teacher, and to the day in 1973, when he first met Irene Vaughan, the then BSBI County Recorder. He touched on the development of the National Botanic Garden of Wales and the growth of the very successful Carmarthenshire Meadows Group. He also showed us a series of maps illustrating the importance of high-precision recording (to at least 10 figure grid reference) as this gives a much better feeling for local abundance. It is also makes refining significant records much easier in the future. A few botanical highlights were featured, from *Lathyrus palustris* (Marsh Pea) found for the first time in Carmarthenshire in 1971 at the time when Richard was just a novice botanist, to the recently recognised hybrid fleabane *Erigeron x stanleyi* – discovered by Barry Stewart just in time for its inclusion in Stace 4.

After the Committee for Wales meeting and AGM on Wednesday morning, the second field trip explored Capel Dyddgen SSSI which includes a delightful series of meadows, both calcareous and acid, as well as dry and marshy with each being enclosed by woodlands or thick hedges. Richard and Kath wove us through the maze of small fields and woodland paths pointing out *Geranium columbinum* (Long-stalked Crane’s-bill), *Orchis mascula* (Early-purple Orchid), *Dactylorhiza praetermissa* (Southern Marsh-orchid) and, of course, *Troecaris (Carum) verticillatum* (Whorled Caraway) which, although not yet in flower, was recognisable by its very distinctive leaves. Andy Jones helped us understand the subspecies of *Myosotis discolor ssp. dubia* (Changing Forget-me-not), drawing attention to its initially whiter flowers and the alternate uppermost leaves and *dubia’s* preference for damp grassland (see image 3 on page 2). Martyn Stead found a plant of *Geum x intermedium* by the stream along which both parents grow. This was the first record of the hybrid from Capel Dyddgen and the first post-2000 record for the SN41 hectad. Arthur Chater, Nigel Stringer and Ray Woods raised the microfungi records from the site to 18 rusts and 25 species from other groups, whilst Tim Rich sought to add to the 23 refereed *Taraxacums* (Dandelions) already recorded! The party was
encouraged to look out for Marsh Fritillary butterflies but none were seen until after most people had left, when Arthur Chater spotted a rather active individual which delighted the occupants of the last two cars to leave but required a degree of nifty pursuit to confirm its identity! Also, Stephen and Anne Coker, reported another sighting in its more usual Molinia (Purple Moor-grass) grassland habitat earlier in the day.

Before dinner The Wales Officer, Barbara Brown, and Pete Stroh, gave a workshop for VCRs on data validation which was followed after dinner by Pete’s talk on Atlas 2020 progress and Nigel Stringer’s entertaining introduction to the biology of rusts and some other fungal plant parasites. He described the importance of the contributions that amateur mycologists are making to the science now that the museums, academic institutions and government research bodies no longer employ such expertise. He also outlined his recording method which he has designed to be easily repeatable by future mycologists.

Members attending the last field day visited Pembrey Burrows, a Special Area of Conservation and Local Nature Reserve with rich duneland and saltmarsh habitats. They were led by Paul Aubrey, the County Council’s “Outdoor Recreation Service’s Coordinator for Volunteers & Education” and accompanied by numerous Skylarks singing overhead. Thalictrum flavum (Common Meadow-rue), Ranunculus lingua (Greater Spearwort), Botrychium lunaria (Moonwort) and Anacamptis morio (Green-winged Orchid) were all found. Intriguingly some floating rafts of leaves in “Jim Davies’ pond” were hoped to be Luronium natans (Floating Water-plantain). However on closer examination, back in the lab, they turned out to be Alisma plantago-aquatica (Common Water-plantain) as they had latex which was not possible to see in the field. This was a disappointment as Luronium has been searched for over many years without success and has never been confirmed as Carmarthenshire species despite several ‘hopeful’, but since disproved, records.

Along the track at least a dozen Small Blue butterflies were taking advantage of the shelter provided by the line of scrub and several Green Hairstreaks were seen close by.

The party dispersed at about 3pm as many participants had long distances to travel home. Richard and Kath were warmly thanked for arranging the meeting which had been made all the better by the warm sunny weather, the comfortable hotel accommodation and first-rate meals! Richard and Kath were heartened to observe much discussion taking place between all abilities of botanists during the field excursions.

In addition to the numerous new vascular plant records, Nigel tells me that forty-three rusts records were made during the site visits over the three days
comprising of thirty species of rusts on thirty-two hosts, the most notable of which were those on *Stachys officinalis* (Betony), *Caltha palustris* (Marsh-marigold), *Chrysosplenium oppositifolium* (Opposite-leaved Golden-saxifrage) and *Valeriana dioica* (Marsh Valerian), all of which are uncommon in Carmarthenshire.

**Hieracium reticulatiforme** new to Wales

TIM RICH, email: tim_rich@sky.com and DAVID McCOSH

Whilst searching for *Hieracium tavense* (Black Mountain Hawkweed) at Nant y Llyn, Black Mountain, v.c. 42 (SN844207) on 28 August 1998, Tim Rich found a second species of *Hieracium* section *Foliosa* which could not be named at the time by P. D. Sell or D. McCosh (=’*Hieracium* sp.’ in Rich & Houston 2000). On a second visit on 30 July 1999, 11 clumps were counted. In 2018 another visit was paid to the waterfall where about five clumps of the unknown species were refound. The additional material collected was identified by David McCosh as *H. reticulatiforme* P. D. Sell, a species first described in 2006 (Sell & Murrell 2006).

*Hieracium reticulatiforme* is new to Wales. It is a British endemic which is widespread in Scotland and was only previously known as far south as Yorkshire (McCosh & Rich 2018). Vouchers have been deposited in BM and NMW.

*Hieracium reticulatiforme* can be distinguished from *H. tavense*, with which it grows, by the ovate-lanceolate upper stem leaves and presence of simple eglandular hairs on the involucral bracts and peduncles (upper stem leaves linear-lanceolate and simple hairs absent from the involucral bracts and peduncles in *H. tavense*).

**References**


How are our Plants doing?
Biological recording as a community of citizen scientists in the village of Penparcau, near Aberystwyth

CHLOE GRIFFITHS. Email: chloe.griffiths.ecology@gmail.com

In 2018 this is still a hard question to answer. There has been a lot of concern at a national level because, “Our ability to monitor the state of nature, and respond with appropriate conservation action, is hampered by a lack of knowledge on the trends of most of the UK’s plant and animal species.” The State of Nature Report (2013).

More recently we have seen in the Well-being of Wales 2016-17 Report that “overall, biological diversity is declining, and no ecosystems in Wales can be said to have all the features needed for resilience. There is an urgent need to uncover the causes of this decline, its geographical extent, and to understand the ramifications of the decline for ecosystems and ecosystem services.”

In response, The Nature of our Village project set out to massively increase how much we know about wildlife in Penparcau, a village of over 3,000 people and covering 190 hectares in West Wales. It began in November 2015 as a partnership between the Penparcau Community Forum, the West Wales Biodiversity Information Centre and the Wildlife Trust for South and West Wales. The project is run by Chloe Griffiths, an ecologist living in Penparcau. We are working to keep the knowledge of species distribution updated with our evidence and to help to inform climate change science.

There are excellent plant records for Penparcau, thanks to Arthur Chater’s Flora of Ceredigion, and the hard work of many talented local botanists. In 2016 we carried out flowering plant surveys with the Wildlife Trust of South and West Wales on a Roadside Verge Nature Reserve next to a busy road, and were pleased to be able to observe an increase of 20 new plant species from the 56 previously recorded there. We repeated this survey with volunteers and the Reserves Manager, Em Foot in 2017, and were able to add 7 new plant species, with a further 6 new species occurring in 2018. These included Meadowsweet (*Filipendula ulmaria*) and Square-stalked Willowherb (*Epilobium tetragonum*), as well as Garlic Mustard (*Alliaria petiolate*), which is the foodplant of the Orange Tip butterflies, and has managed to spread from nearby Parc y Llyn. An exciting find at this location was the Lesser Sea-spurrey, (*Spergularia marina*) which is normally found very close to the sea shore. Steve Chambers, the Vice-County Recorder for Plants noted that it was “particularly interesting growing a short distance inland...yours looks c. 1.5 km (inland), so a vice-county record
breaker!” We hope that this increased biodiversity demonstrates the value of this change in management approach.

Whilst surveying our local gorse scrub covered hill, Pen Dinas, we paid particular attention to the ruins of an old farmhouse, Pant-yr-Allt. We have begun to manage this area for the benefit of flowering plants, as they were being lost to scrub, working as volunteers in partnership with the Wildlife Trust, Greener Aberystwyth Group and the Penparcau Community Forum. We were hoping to see the return of a rare plant, Knotted Hedge-parsley (*Torilis nodosa*), as it had last been recorded on the site in 2008. In 1977 approx. 300 plants were seen there, but sadly it has not reappeared in 2016, 2017 or 2018 despite our annual efforts to remove encroaching scrub from this area. We will check again during 2019.

However, we did notice that our habitat conservation work had increased the number and variety of species at Pant yr Allt, and it is now host to 36 flowering plants and ferns. Species newly recorded at these ruins in 2017 included Oval Sedge (*Carex leporina*) and Cut-leaved Crane’s-bill (*Geranium dissectum*). In 2018 our botanical survey showed 4 new species, including Hemp-agrimony (*Eupatorium cannabinum*), Rough Chervil (*Chaerophyllum temulum*) and Tormentil (*Potentilla erecta*).

The Aberystwyth Botanical Society ran a walk around Coed Geufron, part of which is in the village, in May 2018, which was attended by 12 people. This woodland is next to a housing estate and is accessible to many local people. There was a good assembly of woodland plants to admire, with Broad Buckler-fern (*Dryopteris dilatata*), Enchanter’s-nightshade (*Circaea lutetiana*) and even a Wych Elm (*Ulmus glabra*) which was thought to be over 60 years old. We thank Adam Thorogood from the Woodland Trust for his leadership and expertise.

At the end of the very hot summer of 2018 we found that the well-known “Penparcau Yucca” was actually in flower. This plant grows on the south-facing flank of Pen Dinas and was thought to be a remnant of the days when a rubbish tip was sited there. Arthur Chater notes it in 2005 as “one strong stem”, but has never before seen it in flower. Mr. Chater also provided the project with a comprehensive list, updated in 2018, of all botanical species ever recorded in our area, comprising of 434 species, for which we are extremely grateful.

Another plant of interest in 2018 was the Yellow Horned-poppy, (*Glaucium flavum*), which had begun to spread from the shingle of Tanybwlch beach in to the field directly behind it, with 114 rosettes being visible in September 2018. Steve Chambers responded to our find: “Spectacular. It’s heartening to know species can respond given a chance. I often imagine the Tanybwlch Valley full
of reed beds, coastal carr, brackish swamps, gravel bars...it must have been like that thousands of years ago.”

We began looking for plant galls this year, and were pleased to make a good number of County Firsts, mostly because there are so few people recording them, as Janet Boyd from the British Plant Gall Society says: “Wales is seriously under recorded. I have only 20 gall records for v.c.46, (Ceredigion). I would be delighted to add your records to our database. This is brilliant, having a recorder in Wales!” As many readers will know, plant galls are an interesting example of interaction between insects and plants, where eggs are laid into plant material, causing it to either increase the size of its cells or the number of them. This causes odd-looking plant growth, like the familiar Oak Galls and Robin’s Pincushion. There are an enormous number of these galls, and we are enjoying this area of study. Thanks go to Arthur Chater for his support in this topic on which he has done so much work.

The project benefited from training in winter twig identification from John Poland for BSBI, and also in arable weeds identification at the BSBI conference, which was held locally to us at Aberystwyth University in 2018.

We thank Tom Ottley for providing us with a spreadsheet of a fantastic 151 bryophytes that he and others recorded in our village. Most of them predate this recording year, but 17 are within it. It is of great value to have these older records. He notes that two species of particular interest were “Pterogonium gracile (Bird's-foot Wing-moss) as it is very scarce in Ceredigion and Tortula viridifolia (Bristly Pottia) which is strongly coastal in distribution and usually found on rock outcrops on the cliffs but it is on the river bank on gravelly soil in a number of places.” We are very lucky to have this level of scholarship to rely on for these often over-looked plants.

The recording project will continue for 2 more years, and if anyone would like to come along on one of our surveys, you would be most welcome. You can get in touch with the project by contacting: chloe.griffiths.ecology@gmail.com.
Welsh Plant Records 2018

Welsh Plant Records are compiled by Stephen Coker, Mountain Grove, Clarbeston Road, Haverfordwest, Pembs, SA63 4SG, from reports of BSBI vice-county Recorders to whom records should be sent. Plants are listed for each vice-county in the order of D.H. Kent’s *List of Vascular Plants of the British Isles* (1992) and *Supplements 1, 2 & 3* (1996 & 2000) the number in those lists preceding the name so that names changed since 1996 can be given without giving the former name. Latin names follow the 3rd edition of C.A. Stace’s *New Flora of the British Isles* (2010) or, if not in that Flora, E.J. Clement & M.C. Foster’s *Alien Plants of the British Isles* (1994). T.B. Ryves, E.J. Clement & M.C. Foster’s *Alien Grasses of the British Isles* (1996) or Sell & Murrell’s *Flora of Great Britain and Ireland* (1996-2009). Authorities for Latin names are not given unless the name is not in any of these works. English names are those in Stace (2010) or *English Names of Wild Flowers* ed. 2 (1986) by Dony et al, or, if not in either of those, Clement & Foster (1994), Ryves, Clement & Foster (1996) or Sell & Murrell (1996-2009). English names enclosed by square brackets do not occur in any of these books but have been used elsewhere. Welsh names are those in *Planhigion Blodeuol, Conwydd a Rhedyn*, published by Cymdeithas Edward Llwyd (2003).

The following symbols are used:
* to indicate a new v.c. record;  to indicate an updated VCCC record; ⌼ to indicate a record demonstrating the rediscovery of a taxon published as extinct in the VCCC
+ to indicate a new hectad record;  to indicate an updated hectad record;  to indicate a new tetrad record
† indicates archaeophyte; ‡ indicates neophyte; © indicates casual.
†‡© before the species number: to indicate that the species is regarded as an archaeophyte, neophyte or casual at least somewhere in the British Isles.
†‡© after the species number: to indicate that the species is regarded as an archaeophyte, neophyte or casual generally within the vice county, different from that of the British Isles.
†‡© before the record: to indicate a species which although a native, archaeophyte or neophyte at least somewhere in the vice county, is not so in the locality recorded.
[ ] to indicate that the record, previously published in error, should be deleted.
 to indicate an update to a rare or scarce taxon.
Ø to indicate that the taxon is now believed to be extinct in the locality cited.
N, S, E, W indicate points of the compass.

In general, only records which update the *Vice-county Census Catalogue* [VCCC] (2003) or the *New Atlas of the British & Irish Flora* (2002) will be 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, more precise grid references may be included. A letter in parentheses following a grid reference indicates a tetrad.

The Vice-county Recorders from 2019 are:
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MONMOUTH, v.c.35 (comm. S.J. Tyler & E. Wood)


+004/1.4×5. Equisetum ×litorale (Shore Horsetail) (Marchrawnyn y Glennydd). By stream, Hengoed, ST15 94, S.Tyler & E.Wood, 3rd May 2018; (+) damp wood,


+‡024/1.1 *Laurus nobilis* (Bay) (Llawrwydden). Naturalised in cemetery, St Woolas Newport, ST29 87, S.Tyler, 21st July 2018.


+‡035/2.1. *Ficus carica* (Fig) (Ffigysbren). In wall by the river, Cwm, SO18 04, S.Tyler & E.Wood, 8th Aug 2018.


+‡044/1.2.© *Amaranthus hybridus* (Green Amaranth) (Blodyn Amor Gwyrrdd). Edge of maize field, Clytha, SO37 09, S.Tyler, 30th Aug 2018.

+046/05.1. *Stellaria nemorum* (Wood Stitchwort) (Serenllys y Coed). Woodland by river, Pandy, SO33 22, S.Tyler, 14th Jun 2018, unable to determine subsp as no viable seed produced.


+057/1.01. *Viola odorata var. imberbis* (Sweet Violet) (Fioled Bêr). Hedgerow, Llwyncelyn, ST35 94, S.Tyler & E.Wood, 18th Apr 2018.


A. Wood, 30th Sept 2018; (+) quarry, Livox, ST54 97, E. & A. Wood, 6th June 2018; (+) Ilanrathol, SO46 18, S. Tyler, 29th May 2018; (+) Argoed by old school, SO52 08, S. Tyler, 24th Aug 2018.


+‡062/11.3. **Barbarea intermedia** (Medium-flowered Winter-cress) (Berwr-y-Gaeaf Canolig). Edge of arable field, Watery Lane, Monmouth, SO49 13, S. Tyler, 27th May 2018.

*‡062/14.5.fp. **Cardamine pratensis flore pleno.** Wet meadow, Kilgwrwg, ST46 98, E. Wood, 23rd May 2018.


‡075/17.3.b. **Poterium sanguisorba subsp. balearicum** (Fodder Burnet) (Bwrned Ebran). Industrial estate, Caldicot, ST49 87, E. & A. Wood, 31st Aug 2018; (+) quarry, Livox, ST54 97, E. & A. Wood, 6th June 2018, from seed mix probably; (+) roadside verge, Usk, SO37 01, S. Tyler & E. Wood, 29th Dec 2018.


‡077/32.35. **Cotoneaster rehderi** (Bullate Cotoneaster) (Cotoneaster Deilgrych Rehder). Hedgerow, Abertillery, SO22 03, S. Tyler, 21st Sept 2018.

‡077/02.1. **Galega officinalis** (Goat's-rue) (Nuw'r Geifr). Little Mountain, SO28 02, S. Tyler, E. Wood & A. Wood, 14th Nov 2018.


‡080/1.03. © **Gunnera manicata** (Brazilian Giant-rhubarb) (Rheonllys Mawr Brasil). River Usk, Usk, SO37 02, M. Ogden, 8th Aug 2018.

+084/1.03×08. **Epilobium xinterjectum.** Roadside verge, West of Tintern, SO51 00, E. Wood, 5th Aug 2018.

∗‡091/2.03. **Euphorbia corallioides** (Coral Spurge) (Llaethlys Cwrelaidd). Roadside verge up to castle, Usk, SO37 01, S. Tyler & E. Wood, 29th Dec 2018.

‡091/2.16.b. **Euphorbia amygdaloides subsp. robbiae.** Woodland, Coed-y-cerrig, SO28 21, S. Tyler, 26th Nov 2018.

‡102/1.03. **Oxalis corniculata** (Procumbent Yellow-sorrel) (Suran Orwedddol). Hedgerow, Michaelstone-y-Fedw, ST24 84, S. Tyler & E. Wood, 24th Oct 2018; (+) waste ground, Skenfrith, SO45 20, S. Tyler, 24th July 2018.
+++102/1.10. Oxalis debilis (Large-flowered Pink-sorrel) (Soran Oddfog). Outside a cottage in road, Llangattock Lingoed, SO36 20, S.Tyler & E.Wood, 11th Dec 2018.
+103/2.1.‡ Erodium maritimum (Sea Stork's-bill) (Pig-y-crëyr Arfor). Cobbles in town square, Usk, SO37 00, E.Wood, S.Tyler, K.Newbert & C.Langdon, 29th Dec 2018.
+120/1.5. Callitriche obtusangula (Blunt-fruited Water-starwort) (Brigwlydd Ffrwythau Blaendwn). Dried up pond, Hygga, SO48 02, S.Tyler, 7th Sept 2018.
+124/02.4.‡ Scrophularia scorodonina (Balm-leaved Figwort) (Gwrnerth Dail Gwenyn). Waste ground by river, Duffryn Park by River Ebbw, ST293 860, S.Tyler & E.Wood, 30th May 2018.
++133/1.2. Valerianella carinata (Keeled-fruited Cornsalad) (Gwylaeth-yr-oen Ffrwythau Rhychog). Pavement, Bassaleg, ST27 86, E.Wood, 29th May 2018; (+)

+‡135/44.1. **Conyza canadensis** (Canadian Fleabane) (Amrhydlwyd Canada). Muck heap at entrance to arable field, Cwmcarvan, SO46 06, E. & A.Wood, 18th Aug 2018.

+‡135/44.2. **Conyza sumatrensis** (Guernsey Fleabane) (Amrhydlwyd Guernsey). Waste ground, near Abergavenny, SO31 15, S.Tyler & E.Wood, 18th Oct 2018; (+) waste ground by derelict pub, Llangwm-isaf, SO42 00, 26th Jul 2018.


+‡135/74.1.© **Ambrosia artemisiifolia** (Ragweed) (Bratlys). Garden, Penallt, SO52 09, S.Tyler, through summer.

+‡151/1.02. **Juncus tenuis** (Slender Rush) (Brwynen Fain). Tracks, Bal Bach, SO26 26, S.Tyler, 1st Nov 2018.

+152/05.1 **Scirpus sylvaticus** (Wood Club-rush) (Clwbfrwynen Bengron). Riverside, Abergavenny, SO289 139, M.Ogden, 18th Sept 2018.

+152/16.08. **Carex muricata** (Hesgen Ysbigog). Roadside verge, Hendre Farm, SO44 12, S.Tyler, 17th June 2018.


*‡153/03.2. **Sasa veitchii** (Veitch's Bamboo) (Bambŵ Brith). Deciduous woodland, Lower Glyn Farm, SO47 07, E.Wood, 10th May 2018, well established in the wood near the mill bridge.


+153/46.1.‡ **Polypogon monspeliensis** (Annual Beard-grass) (Barfwellt Unflwydd). Waste ground, Magor area, ST43 86, S.Tyler & E.Wood, 27th Jun 2018, also in squares ST4387 and ST4487.

+‡153/52.5. **Anisantha madritensis** (Compact Brome) (Pawrwellt Cryno). Edge of arable field, Near Abergavenny, SO31 15, S.Tyler & E.Wood, 18th Oct 2018; (+) edge of arable field, Wernrheolyl, SO38 11, S.Tyler, 16th Sept 2018, also in sq SO3812.


+154/1.1.c. **Sparganium erectum subsp. neglectum.** Reen, Nr West Usk Lighthouse, ST30 83, E.Wood, 4th Sept 2018.

+154/1.1.d. **Sparganium erectum subsp. oocarpum.** By pond, Parsonage Farm, SO35 16, S.Tyler, 14th July 2018.


+†158/24.09. **Allium paradoxum** (Few-flowered Garlic) (Cenhinen Brinflodeuog). Roadside verge, Chepstow Park Wood, ST49 96, E. & A.Wood, 8th Apr 2018; (+) edge of castle grounds, Grosmont, SO40 24, S.Tyler & E.Wood, 28th Apr 2018; (+) Penallt, SO52 09, S.Tyler & E.Wood, 6th May 2018

GLAMORGAN, v.c.41 (comm. J.P. Woodman & B. Stewart)

+1-1-cot **Chara contraria** (Opposite Stonewort). Baglan Bridge, SS738 929, Barry Stewart, 30th Mar 2018, disturbed, seasonally flooded ground.


☑017/2.1. **Cystodium falcatum** (House Holly-fern) (Gwrychredynen-y-Celyn y Tŷ). Lisvane, ST19 84, Glamorgan Botany Group, 21st Jul 2018.


*040/2.1×2. **Alnus ×hybrida** (**A. glutinosa** × **A. incana**). Cwm tip, Church Village, ST072 861, T.C.G. Rich, 14th May 2018.


+089/1.1. Ilex aquifolium (Holly) (Celynnen). Worm's Head (Inner), SS394 875, O.J. Leyshon, 13th Jun 2018.

+‡091/2.15. Euphorbia cyparissias (Cypress Spurge) (Llaethlys Cypreswydd). Penllyn, Cowbridge, SS97 76, Rob & Linda Nottage, 22nd Jun 2018.


+118/23.1. Mentha arvensis (Corn Mint) (Mintys yr Âr). Land adjoining Maerdy playing fields Gwaun-Cae-Gurwen, SN7085 1190, NPT CBC Biodiversity Unit, 1st Jan 2018.

+118/23.2×3.‡ Mentha ×piperita (Peppermint) (Mintys Poeth). Former Penclawdd Sewage Works & surrounds, SS547 959, Barry Stewart, 30th Dec 2018.


+‡118/23.3×lon.© Mentha ×villosonervata (Sharp-toothed Mint) (Mintys Danheddog). Garw forest, SS897 903, David Barden & Glamorgan Botany Group, 12th Aug 2018.


+130/6.03. Galium uliginosum (Fen Bedstraw) (Briwydd y Fign). Seven Sisters (land east of rugby club), SN815 082, B. Stewart & C.R. Hipkin, 9th Aug 2018.
+135/01.1.sl. **Arctium lappa.** Disgwylfa, Penrhhiwfer Track, SS9990 8974, David J. Barden, 17th Sep 2018.


+‡135/62.03. **Senecio inaequidens** (Narrow-leaved Ragwort) (Creulys Gulddail). Margam Moors (sidings), SS791 837, Barry Stewart, 23rd Sep 2018, 4 plants noted.

‡148/1.1. **Spirodela polyrhiza** (Greater Duckweed) (Llinad Mawr). Lisvane, ST194 844, Glamorgan Botany Group, 21st Jul 2018.


+152/16.41. **Carex distans** (Distant Sedge) (Hesgen Blodau Pell). Worm's Head (Inner), SS394 875, O.J. Leyshon, 13th Jun 2018.


+153/47.1. **Alopecurus pratensis** (Meadow Foxtail) (Cynffonwellt y Maes). Glyncornel, Tonypandy, meadows and woodland, SS99 94, David J. Barden, 26th May 2018.


‡153/68.1.© **Echinochloa crus-galli** (Cockspur) (Cibogwellt Rhydd). Bolgoed Road, Pontarddulais, SN599 032, Barry Stewart, 2nd Sep 2018, in seeded verge; (+) Cwmdulais Cottages, SN616 035, Barry Stewart, 2nd Sep 2018, bird seed alien.

‡153/70.1.© **Setaria viridis** (Green Bristle-grass) (Cibogwellt Gwyrddlas). Cwmdulais Cottages, SN616 035, Barry Stewart, 2nd Sep 2018, bird seed alien.


+162/18.3. **Dactylorhiza incarnata** (Early Marsh-orchid) (Tegeirian-y-gors Cynnar). Aberpergwm 'new Bog 2' (central), SN847 075, Barry Stewart, 5th Jul 2018, dry margin around bog

BRECON, v.c.42 (comm. M. Porter & J. Crellin)


+028/13.22. **Ranunculus trichophyllus** (Thread-leaved Water-crowfoot) (Crafanc-y-frân Feinndail). Ford near Twyn y Ffynnon, SN890 320, John Crellin, 3rd Aug 2018, collected from a large patch that is presumably normally submerged at the ford.

*‡029/1.9. **Berberis darwinii** (Darwin's Barberry) (Pren Melyn Darwin). Llyngeren, SO05 12, John Crellin, 29th Dec 2018.


+060/1/1 *Bryonia dioica* (White Bryony) (Bloneg y Ddaear). Llanfeugan Church, SO08 24, John Crellin, 10th Oct 2018.


+061/2.16. *Salix repens* (Creeping Willow) (Corhelygen). High meadow Berthlwyd Fawr, SO094 206, John Crellin, 5th Sep 2018, high meadow below Twyn Du. Frequent in an approx 100m sq area.


Pentaglottis sempervirens (Green Alkanet) (Llysiau'r-gwred Gwyrdd). Glan Camddwr, SN92 47, John Crellin, 5th Jul 2018, lane with two fords from Cefn Glancamddwr south.


Euphrasia arctica (Arctic Eyebright) (Effros yr Arctig). West of Gorse-Fach Farm, SN88 38, John Crellin, 3rd Jul 2018, headwaters of the Cilieni river.


Pulicaria dysenterica (Common Fleabane) (Cedowydd). Wet meadows near Pont Llwyn-on, SN961 386, Ray Woods & John Crellin, 21st May 2018, one patch seen.

Erigeron karvinskianus (Mexican Fleabane) (Amrhydlwyd y Cerrig). Pontsticill, SO05 11, John Crellin, 29th Dec 2018.


+158/20.2×3.‡ **Hyacinthoides ×massartiana** (**H. hispanica × H. non-scripta**) (Clychau’r-gog Croesryw). Cwm Rhíwlas, SN83 32, Mike & Christine Porter & John Crellin, 17th May 2018, a40 edge near Halfway; (+) Cnuwch, SN80 51, John Crellin, 23rd May 2018

RADNOR, v.c.43 (comm. E.R. Dean & S.M. Spencer)


*‡117/1.bon. **Verbena bonariensis** (Argentinian Vervain) (Ferfain yr Ariannin). Whitton, SO27 67, Liz Dean, 26th Sep 2018, between road and pavement, assume garden escape.

*‡129/1.3. **Campanula lactiflora** (Milky Bellflower) (Clychlys Gwelw). Broad Heath, SO33 63, Sue Spencer, 4th Aug 2018, roadside, assume escaped.

*‡135/43.4. **Erigeron karvinskianus** (Mexican Fleabane) (Amrhydlwyd y Cerrig). Discoed, SO27 64, Sue Spencer, 29th Sep 2018, churchyard gateway, assumed garden escape.

*152/10.1. **Blysmus compressus** (Flat-sedge) (Corsfrwynen Arw). Upland, edge of seasonal pond, Yr Allt, SO17 44, Hannah Shaw, 6th Sep 2017, small quantity, two flowering, sheep grazing.

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

+004/1.9. **Equisetum telmateia** (Great Horsetail) (Marchrawnwen Fawr). Bryn Sion Chapel, Pont Treseli, SN2544-3999-, A.O.Chater, R.D. & K.A.Pryce, 30th Aug 2018, rank, uncut but quite spp.-rich chapelyard. Also in chapelyard at SN 2542-3998- and on roadside at Pont Treseli SN 2523-3999-,

+‡020/5.1. **Larix decidua** (European Larch) (Llarwydden Ewrop). Gobedig Farm, Pont Treseli, SN2564-3891-, A.O.Chater, R.D. & K.A.Pryce, 30th Aug 2018, two mature trees in hedgerow (an early planting), one broken half way up.


+033/1.1×3.‡ Ulmus ×vegeta (Huntingdon Elm) (Llwyfen Huntingdon). Dolhaidd Isaf, Pentrecagal, SN3431- 4053-, A.O.Chater, R.D. & K.A.Pryce, 7th Jun 2018, growing in boundary hedgerows. Also at SN 3466- 4078- and SN 3432- 4051-.


+‡062/31.2. Lepidium didymum (Lesser Swine-cress) (Olbrain Bach). Ysgol Dyffryn Taf, Whitland, SN19783 16908, Richard D. Pryce, 30th May 2018, in limestone
cobbles forming foundations of removed demountable building south of main school building.


+069/1.3. **Primula veris** (Cowslip) (Briallen Fair). Vacant land south of Ysgol Dyffryn Taf campus, Whitland, SN19636 16793, Richard D. Pryce, 23rd Apr 2018, about 6 plants in rather wet, unmanaged, scrubby land, c.5m from north chainlink boundary fence. Another plant in disturbed ground on eastern boundary at SN 19657 16766.


+‡074/08.1. **Tellima grandiflora** (Fringe Cups) (Clychau'r Clawdd). Dolhaiidd Isaf, Pentrecagal, SN3446- 4066-, A.O.Chater, R.D. & K.A.Pryce, 7th Jun 2018, locally abundant on grassy bank. Also at SN 3450- 4072-.


+075/08.02.068. **Rubus perdigitatus**. Blaen Dewi-fawr, SN3002- 3008-, BSBI Rubus Meeting, det. D.P.Earl & R.D.Randall, 27th Jul 2018, hedge on south side of entrance drive. Also at SN 3005- 3007-; (+) Maudland Picnic Site, SN3305- 3492-, BSBI Rubus Meeting, det. R.D.Randall, 27th Jul 2018, bramble patches and heathland around picnic site. Also at SN 3307- 3490- and in Hermon at SN 3632- 3063-.


+075/08.03.093. Rubus cardiophyllus. Morfa Berwig LNR entrance, Bynea, SS5423- 9878-, BSBI Rubus Meeting, det. D.P.Earl & R.D.Randall, 30th Jul 2018, locally frequent on sides of track inside LNR.


+075/08.05.142. **Rubus ulmifolius**. Gobedig Farm, Pont Treseli, SN2562- 3907- , A.O.Chater, R.D. & K.A.Pryce, 30th Aug 2018, hedgerows along green lane. Also in hedge at SE corner of field at SN 2565- 3874-.

+075/08.06.146. **Rubus bartonii**. Maudland Picnic Site, SN3304- 3494- , BSBI Rubus Meeting, det. R.D.Randall, 25th Jul 2018, bramble patches around picnic site. Also on heathy road verges through felled forestry plantation at SN 3331- 3438-.


*075/08.08.gly **Rubus 'Glynhir curvidens'**. Minor road, Ammanford, 22/62---13---, BSBI Rubus Meeting, det. R.D.Randall, 23rd Jul 2018.


*075/08.10.249. **Rubus radula**. Sugar Loaf, 22/8376542652, BSBI Rubus Meeting, det. D.P.Earl & R.D.Randall, 29th Jul 2018, forest access track, north side, HbRDR
+075/08.11.268. **Rubus dasyphyllus**. Maudland Picnic Site TN1802, SN3303- 3489-, BSBI Rubus Meeting, det. R.D.Randall, 25th Jul 2018, bramble patches and heathland around picnic site. Also at Blaen Dewi-fawr SN 3002- 3008-, Cwmpencraig SN 3459- 3650- and Hermon SN 3632- 3063-.
+‡075/32.34. **Cotoneaster bullatus** (Hollyberry Cotoneaster) (Cotoneaster Deilgrych). Cwmpencraig, SN3459- 3650-, BSBI Rubus Meeting, det. A.O.Chater, 25th Jul 2018, self-sown by path through wooded valley.
+087/1.1. **Viscum album** (Mistletoe) (Uchelwydd). Dolhaiidd Isaf, Pentrecagal, SN3439- 4062-, A.O.Chater, R.D. & K.A.Pryce, 7th Jun 2018, four large plants, one very nearly dead, well established on apple trees on river flood plain.


116/CER.maj. Cerinthe major (Greater Honeywort). Llanelli, St Margaret's Drive, SN497 013, Ian K. Morgan, 26th Dec 2018, one seedling of C. major var. 'Purpurascens' in angle between garden wall and pavement. Flowering plant in nearby garden.

118/06.5. Galeopsis bifida (Bifid Hemp-nettle) (Y Benboeth Hollt). Carn-wen, SN1659- 2879-, BSBI Rubus Meeting, 24th Jul 2018, scrub edge on north side of lane.


+120/1.7. Callitrichie brutia var. hamulata (Intermediate Water-starwort) (Brigwlydd Canolig). Dolhaidd Isaf, Pentrecagal, SN3426- 4055-, A.O.Chater, R.D. & K.A.Pryce, 7th Jun 2018, river Teifi, in both vc44 and vc46. Also at SN 3437- 4060-.


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*†135/25.09.110. **Taraxacum amplum** (Toothed Dandelion). Old A40, Dinefwr Home Farm, Llandeilo, SN62124 22984, R.D.Pryce & K.A.Pryce, det. A.J. Richards, Nov.2018: “This is 'British amplum' which may not be the same as Scandinavian material”, 21st Apr 2018, roadside verge, NMW


‡135/25.09.190. **Taraxacum pulchrifolium** (Beautiful-leaved Dandelion). West Street, Whitland, SN19749 16712, Richard D. Pryce, det. A.J. Richards, Nov.2018, 23rd Apr 2018, verge on north side of road adjacent to ATC hut, **NMW**


+‡135/44.flo. **Coneza floribunda** (Many-flowered Fleabane). Ysgol Dyffryn Taf, Whitland, SN19783 16908, Richard D. Pryce, 30th May 2018, in limestone cobbles forming foundations of removed demountable building south of main school building.


+162/18.2.a. **Dactylorhiza maculata subsp. ericetorum**. Haulwen, nr.Trelech, SN3257- 2814-, West Wales Biodiversity Information Centre Recording Meeting,

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

+004/1.9. Equisetum telmateia (Great Horsetail) (Marchrwnnen Fawr). Woodland west of Temple Gate, Crosswell, SN130 364, Matt Sutton, 20th Dec 2018, Equisetum telmateia and Viburnum opulus were below a spring on a clay slope in woodland.
*005/1.2. Ophioglossum azoricum (Small Adder's-tongue) (Tafod-yn-neidr Bach). Skokholm, Dale, SM73305 04988, Fiona Gomersall, det. Fred Rumsey, 3rd May 2018, 18 plants found here and another 8 at SM73737 04972 and 3 at SM73785 04973 further east on the island. Photograph sent to Fred Rumsey. First confirmed record for Pembrokeshire though believed to have once been present on the neighbouring island of Skomer. Ophioglossum vulgatum sens. lat. has been known from Skokholm since 1981.

+015/2.1. Asplenium adiantum-nigrum (Black Spleenwort) (Duegredynen Goesddu). Ha-ha, St Bride's Castle, SM7969-1075-, Stephen & Ann E. Evans, 28th Aug 2018, stone wall of the one metre high ha-ha.
+‡020/1.1. Abies alba (European Silver-fir) (Ffynidwydden Arian). Castell Malgwyn grounds, Cilgerran, SN2129-4323-, Howard Williams, 4th Dec 2018, self-sown as it was quite small and some distance from the area just SSE of Castell Malgwyn House where non-natives were planted.
+‡020/1.1. Abies grandis (Giant Fir) (Ffynidwydden Fawr). Castell Malgwyn grounds, Cilgerran, SN2131-4336-, Howard Williams, 19th Jan 2018, small seedling near the tunnel.
+023/1.1.;‡ Taxus baccata (Yew) (Ywen). Goultrop Roads, Little Haven, SM83988 12583, Stephen Evans, 16th Apr 2018, a young yew tree was near the small old quarry by the old track down through this coastal woodland.


Ranunculus flammula (Lesser Spearwort) (Llafnlys Bach). Minor cliff-top flush runnel, The Nab Head, St Bride's, SM79086 11055, Stephen Evans, 28th Aug 2018, a winter runnel on a steeper section of cliff-top that had flushed margins.

Papaver pseudoorientale (Oriental Poppy) (Llygad y Bwgan). Newport Beach Car Park, Nevern, SN05483 40551, Stephen & Ann E. Evans, 2nd Jun 2018, a well-established flowering clump was growing on the vegetated sand bank that had been built up at the rear of the northern car park.

Meconopsis cambrica (Welsh Poppy) (Pabi Cymreig). Roadside in Boulston Wood, Haverfordwest, SM97662 13170, Stephen & Ann E. Evans, 20th May 2018, both Meconopsis and Allium triquetrum were almost certainly of garden origin as they were by and below the road where there was a slight pull off.


Quercus ilex (Evergreen Oak) (Derwen Fythwyrdd). Ha Ha, St Bride's Castle, SM7969- 1075-, Stephen & Ann E. Evans, 28th Aug 2018, the Quercus ilex was a self-seeded small sapling.

Chenopodium rubrum (Red Goosefoot) (Troed-yr-ŷyd Coch). Midden in field north of Tyriet, Gilgwyn, Newport, SN0743- 3630-, Stephen Evans & Kerry Turner, 25th Sep 2018, a large plant was on the edge of the muck heap in the field on the west side of the road: (+) Edge of damp arable field, Glanrhyd, SN1433- 4222-, Howard Williams, 17th Sep 2018.

Chenopodium polyspernum (Many-seeded Goosefoot) (Troed-yr-ŷyd Amlhadoeg). Porterswell Farm, Roch, SM8688- 2214-, Matt Sutton, 13th Aug 2018; (+) Treseisyllt, St. Nicholas, SM8844- 3570-, Stephen Evans, 9th Sep 2018, found in a former arable field that was ploughed and left unsown.

Chenopodium album (Fat-hen) (Troed-yr-ŷyd Gwyn). North of Bwlch-y-groes, SN2426- 3635-, Howard Williams, 17th Jul 2018, edge of arable field.


patula was growing with Scleranthus annuus; (+) Track, Bwlch-y-groes, SN2434-3619-, Howard Williams, 17th Jul 2018.

+‡045/2.2. **Claytonia sibirica** (Pink Purslane) (Porpin Pinc). Bank of Western Cleddau river, Trefgarne Gorge, SM95869 25057, Stephen & Ann E. Evans, 25th Apr 2018, a single flowering plant on the wooded flood prone margin of the eastern side of the river; (+) Coed Glandwr, Nevern, SN073 404, Stephen & Ann E. Evans, 21st Apr 2018, a single plant was in flower on the rocky river platform area at the outside bend of the river within the wood.


+046/05.3. **Stellaria pallida** (Lesser Chickweed) (Gwlydd-y-dom Bach). Broad Haven dunes, Stackpole, SR97712 94277, Paul R. Green, 12th Mar 2018, found along a sandy track, with lots in a sandy bare area of a field gate and along man-made paths at Stackpole Warren in short open turf. See BSBI Welsh Bulletin No. 102 July 2018 pages 11-13; (+) South Beach boardwalk, Tenby, SN13173 00081, Paul R. Green, 11th Mar 2018, two plants on blown sand at the side of a boardwalk at the top of the beach. Also, as a pavement weed along the nearby Esplanade. See BSBI Welsh Bulletin 102: 11-13.

+046/05.7. **Stellaria graminea** (Lesser Stitchwort) (Serenllys Bach). Ha-ha, St Bride's Castle, SM7969- 1075-, Stephen & Ann E. Evans, 28th Aug 2018, growing on the NE facing one metre high wall of the ha-ha.


+046/11.2 **Scleranthus annuus** (Annual Knawel) (Dinodd Unflwydd). Llanwnwr, Strumble Head, SM88893 40313, Stephen & Ann E. Evans, 21st Aug 2018, 100's of Scleranthus annuus were scattered with some dense patches along a cattle/pony track pinch point through Ulex. There were many similar stands nearby making it a very large population.


+‡047/1.02.© **Persicaria campanulata** (Lesser Knotweed) (Y Ganwraidd Fach). West side of Frenni Fach Common, Tegryn, SN2252- 3449-, Howard Williams, 26th Aug 2018, near the house at the foot of Frenni Fach common.


+†047/5.4. Fallopia convolvulus (Black-bindweed) (Y Glymog Ddu). Field above Abercych, SN2429-4134-, Howard Williams, 13th Sep 2018, edge of arable field.


+‡051/1.01. Hypericum calycinum (Rose-of-Sharon) (Rhosyn Saron). Glanteifi Hotel, Poppit, St. Dogmaels, SN1625-4711-, Howard Williams, 16th Jan 2018, track edge opposite the house of Rhug.


+†062/01.7. Sisymbrium officinale (Hedge Mustard) (Roced y Berth). Field headland by path, St Bride's Castle, SM7969-1103-, Stephen & Ann E. Evans, 28th Aug 2018, growing on the eastern margin of a barley stubble field; (+) By old canal, Manordeifi, SN2241-4347-, Howard Williams, 26th Jun 2018.

+062/12.4. Rorippa palustris (Marsh Yellow-cress) (Berwr Melyn y Gors). Recently enlarged pond, Newton Cottage, Manorbier Newton, SS0427-9928-, Matt Sutton, 16th Sep 2018, a single plant at the pond edge.

+062/22.2. Erophila verna (Common Whitlowgrass) (Llysiau’r-bystwn Cynnar). Granston Church, St. Nicholas, SM896 341, Stephen & Ann E. Evans, 18th Apr 2018, herbicide had again been used in 2017 on the approach path to the church porch - this is where there was abundant Erophila verna on the chippings, a result of this herbicide use?


+‡062/34.3. Brassica rapa (Turnip). Field below Capel Colman, Boncath, SN2197-3823-, Howard Williams, 7th Sep 2018, weedy field.


+‡069/4.5. Lysimachia punctata (Dotted Loosestrife) (Trewyn Brych). Haroldston Bridge, Haverfordwest, SM95908 14849, Stephen & Ann E. Evans, 21st Jun 2018,
growing immediately below the bridge on the north of the main channel. Garden waste has been dumped here in previous years.

074/07.1. *Tolmiea menziesii* (Pick-a-back-plant) (Crydlys). Tre-llwyn Wood, Llanychaer, SM99689 35194, Stephen & Ann E. Evans, 30th Apr 2018, stands of *Tolmiea menziesii* were near the river in winter/wet weather flood zones. There are others along the Afon Gwaun; (+) 'Plain' quarry, Llechrhyd Gorge, Cilgerran, SN20572 42993, Howard Williams, 15th May 2018, track at bottom of disused slate quarry.


075/22.05.b. *Prunus domestica subsp. insititia* (a subspecies of Wild Plum) (Coeden Eirin Bwlas). NW of Fowborough Point, Hook, SM99390 11790, Stephen & Ann E. Evans, 29th Aug 2018, a few trees with ripe plums and no thorns were growing at the top of the foreshore.


077/19.01. *Trifolium ornithopodioides* (Bird's-foot Clover) (Corfeillionen Wen). Road centre, Strumble Head, SM89899 40811, Stephen & Ann E. Evans, 17th May 2018. *Trifolium ornithopodioides* was frequent in the centre of the tarred single-track road to the lighthouse. It was also scattered along the road centre from SM89925 40789 to 89758 41108.

077/19.04. *Trifolium hybridum* (Alsike Clover) (Meillionen Sweden). Priory Park Saltings entrance, Haverfordwest, SM9587- 1499-, Matt Sutton, 5th Oct 2018, the *Trifolium hybridum* was not obviously introduced, although a patch of seed mix with Anthemis austriaca, Glebionis segetum etc had been sown about 50m away.


+†091/2.08. **Euphorbia helioscopia** (Sun Spurge) (Llaethlys yr Ysgyfarnog). Field below Capel Colman, Boncath, SN2197-3823-, Howard Williams, 7th Sep 2018, weedy field.

+095/1.2. **Polygala serpyllifolia** (Heath Milkwort) (Amlaethai’r Waun). Wet heathland on side of inflow channel into new winter pool, Ramsey, SM69878 23685, Stephen Evans, 26th Sep 2018.

+103/1.16. **Geranium molle** (Dove's-foot Crane's-bill) (Pig-yr-Aran). Ha-ha, St Bride's Castle, SM7969-1075-, Stephen & Ann E. Evans, 28th Aug 2018, growing on the NE facing one metre high wall of the ha-ha.

+103/2.1. **Erodium maritimum** (Sea Stork's-bill) (Pig-y-crëyr Arfor). Castlebay Seafoods Yard, Johnston, SM9194-1038-, Matt Sutton, 5th Oct 2018, there were 12 + rosettes in mossy turf at the edge of the hardstanding.

+107/06.1. ** Anthriscus sylvestris** (Cow Parsley) (Gorthyfail). Old wooded garden, St Bride's Castle, SM7959-1085-, Stephen & Ann E. Evans, 28th Aug 2018, under the trees of the wooded northern garden area; (+) Cwm Felin woodland, Llanwnda, SM926 402, Stephen Evans, 24th Jun 2018, growing by the stream and the coast path in woodland.


+110/8.1. **Solanum nigrum** (Black Nightshade) (Codwarth Du). Wooded garden, St Bride's Castle, SM79658 10885, Stephen & Ann E. Evans, 28th Aug 2018, track edge by a collapsing old wall on the margin of barley stubble; (+) New hedgebank by track near Shipping Hill Plantation, Ludchurch, SN120 106, Matt Sutton, 23rd Oct 2018; (+) West of Pentre Mansion, Capel Newydd, SN227-4075-, Howard Williams, 29th Sep 2018, in arable field where topsoil had been stripped.

+©110/9.1. **Datura stramonium** (Thorn-apple) (Afal Dreiniog). Ty-cant, NW of Welsh Hook, Letterston, SM9267-2810-, R.F Taylor, 13th Sep 2018, a single plant growing next to a slurry tank by the roadside by the farm.


+‡116/08.1. **Pentaglottis sempervirens** (Green Alkanet) (Llysiau’r-gwrid Gwyrrd). Riverbank, Western Cleddau, Pen-yr-allt, Letterston, SM92892 28978, Stephen Evans, 15th May 2018, a clump in flower was on the river bank. Presumably washed down from above during flood conditions.

†118/01.8. **Stachys arvensis** (Field Woundwort) (Briwlys y Tir Âr). Field below Capel Colman, Boncath, SN2197-3823, Howard Williams, 7th Sep 2018, weedy field.


+118/22.1. **Lycopus europaeus** (Gypsywort) (Llysiau’r Sipsiwn). Llechrhyd Bridge, SN2180-4361, Stephen & Ann E. Evans, 20th Jun 2018, on the up-stream side of the bridge over the Afon Teifi.

+121/1.3.b. **Plantago major subsp. intermedia**. New winter pool, Ramsey, SM6998323656, Stephen Evans, 26th Sep 2018, neither Plantago major nor its subsp. intermedia had previously been recorded in SM62.

†124/09.1. **Misopates orontium** (Weasel’s-snout) (Y Trwyn-y-llo Lleiaf). Field above Abercych, SN2428341341, Howard Williams, 29th Sep 2018, arable field.

124/20.06. **Euphrasia tetraquetra** (Effros y Gorllewin). Major cliff-top flush complex, The Nab Head, St Bride’s, SM7912811057, Stephen Evans, 28th Aug 2018, an extensive cliff top flush complex had been pony grazed and had a classic short turf in places and at its seaward margins it merged with maritime grassland.


†129/7.2.© **Lobelia erinus** (Garden Lobelia) (Bidoglys yr Ardd). Track by cottage, Pont Newydd track by cottage, Nevern, SN0717-4025, Stephen & Ann E. Evans, 21st Apr 2018, a single small plant was in flower on the stony track in front of the cottage. Another established plant was on the front garden wall.

+130/3.1. **Sherardia arvensis** (Field Madder) (Mandon Las yr Ŷd). Llanwnwr, Strumble Head, SM8883240353, Stephen & Ann E. Evans, 21st Aug 2018, on dried up old ant hill on stone by prominent boulder.


+131/2.1. **Viburnum opulus** (Guelder-rose) (Gwifwrnwydden y Gors). Porterswell Farm, Roch, SM8688-2214, Matt Sutton, 13th Aug 2018.

†131/5.1. **Leycesteria formosa** (Himalayan Honeysuckle) (Bachgen Llwm). Trackside in woods of Ffynnonnau, Capel Newydd, SN2428-3843, Howard Williams, 27th Nov 2018, several plants.


+‡135/45.2. **Olearia macrodonta** (New Zealand Holly) (Llwyn-lllygad-y-dydd Celynnog). Maengwyn, Dinas Cross, SN0232- 3869-, Stephen & Ann E. Evans, 31st Dec 2018, a young plant was growing by the wall of Maengwyn on the edge of the tarmac of the old road. The parent bush was about 10 m distant. It had been fertile for at least 20 years.

+†135/59.1. **Matricaria chamomilla** (Scented Mayweed) (Amranwen Bêr). Field headland by path, St Bride's Castle, SM7969- 1103-, Stephen & Ann E. Evans, 28th Aug 2018, located on the eastern margin of a field of barley stubble.


+146/1.2. **Zostera noltei** (Dwarf Eelgrass) (Gwellt-y-gamlas Bach). NW of Fowborough Point, Hook, SM99733 11646, Stephen & Ann E. Evans, 29th Aug 2018, well rooted in mud and specimens examined alongside a small stone spit. The Zostera bed extended south-east from here to SM99996 11132. It had also been mapped in the same area by NRW in 2017 when it had been recorded from here to south of Fowborough Point and into Sprinkle Pill.

+‡148/2.4. **Lemna minuta** (Least Duckweed) (Llinad Bach). SW of Cwnblaen-bwlan, Ffynonnau, Capel Newydd, SN2291- 3774-, Howard Williams, 10th Sep 2018, choked pond by track.

+151/1.13. **Juncus articulatus** (Jointed Rush) (Brwynen Gymalog). Major cliff-top flush complex, The Nab Head, St Bride's, SM79128 11057, Stephen Evans, 28th Aug 2018, an extensive cliff top flush complex had been pony grazed and had a classic short turf in places and finely structured grazed tussocks of Molinia caerulea.


+152/11.1. **Cyperus longus** (Galingale) (Ysnoden Fair). Church Farm Bungalow, East Williamston, SN0964- 0469-, Matt Sutton, 23rd May 2018, Cyperus longus in a dry
field edge. Its origins were traced back to a small garden pond at SN0973 0485. It is still native at one extant station in VC45 but all other locations since 1950 are almost certainly arrivals/introductions.


+152/16.46.c. Carex viridula subsp. viridula (Small-fruited Yellow-sedge). Cors Penally, Penally, SS11654 98868, Stephen Evans, 24th Jul 2018, the peat of the fen had been opened up by cattle grazing and cattle trampling.


+153/49.5. Phleum arenarium (Sand Cat's-tail) (Rhonwellt y Tywyn). New Barn Roof, Jordanston Mountain, Redberth, SN0880-0364-, Matt Sutton, May 2018, one tuft of flowering Phleum arenarium with many flowering stems on new barn roof. Source was imported sand/gravel mix from Lawrence Landfill, Haverfordwest.


+158/07.1. **Colchicum autumnale** (Meadow Saffron) (Saffrwm y Ddôl). West Williamston Nature Reserve, West Williamston, SN02605 06149, Nathan Walton, 9th May 2018, between 400 and 500 plants growing in a 10 x 9m area in secondary ash woodland on the top of a limestone ridge in a disused tidal limestone quarry. Almost certainly introduced.

+158/35.1.‡ **Ruscus aculeatus** (Butcher's-broom) (Celynnen Fair). Langton Hall, Scleddau, SM9448-3379-, Stephen & Ann E. Evans, 25th Apr 2018, a clump was on the NNW side of the Hall on the garden/grass verge to the drive under trees.

CARDIGAN, v.c.46 (comm. S.P. Chambers)

+003/1.2. **Isoetes echinospora** (Spring Quillwort) (Gwair Merllyn Bach). Llyn Llygad Rheidol, SN792 878, A.O. Chater, 3rd Jun 2018, very abundant in upland lake. The 1st record from the lake and new v.c. alt limit.

+‡016/1.1. **Matteuccia struthiopteris** (Ostrich Fern) (Rhedynten Estrys). By ornamental pond, Pont-faen, c. 2.5 km NW of Cribyn, SN493 525, M.D. Sutton, 25th May 2018, naturalised where planted. The 2nd VCR.

+028/13.07. **Ranunculus parviflorus** (Small-flowered Buttercup) (Blodyn-y-menyn Mân-flodeuog). Gravelly ground at edge of roadway on caravan park, Llety caravan park, c. 0.5 km W of Tresaith, SN274 513, S.P. Chambers, 23rd Apr 2018, c.12 non-flowering plants over 2 x 2 ft. A new site for this v.c.-rare species & the 2nd caravan park occurrence.


+029/1.1‡ **Berberis vulgaris** (Barberry) (Pren Melyn). Edge of wet plantation woodland, c.400 m E of Nanthenfoel, c.0.5 km SSW of Pont Creuddyn, SN549 517, S.P. Chambers, 19th Apr 2018, single large bush, c. 3 x 2 x 3 m. Seems the 1st 'non-hedgerow' occurrence for the v.c. and a new site (the 9th current).

+036/2.1. **Parietaria judaica** ( Pellitory-of-the-wall) (Paladr y Wal). Llety caravan park, c. 0.5 km W of Tresaith, SN273 514, S.P. Chambers, 23rd Apr 2018, single small plants seen 3x on different wall bases. The 1st hectad record since 1936.


*043/1.05. **Chenopodium glaucum subsp. prostratum** (Oak-leaved Goosefoot) (Troed-yr-ŷdd Dail Derw). Newman’s garden centre, Capel Dewi, SN626 823, S.P. Chambers, 26th Aug 2018, one plant growing in crack between paving slabs by outdoor fruit tree section, *herb. SPC*
**+043/3.10.‡ Atriplex portulacoides** (Sea-purslane) (Llygwyn Llwydwyn). E-edge of recent dune, N-end of Ynys-las dunes, SN609 945, A.O.Chater, 14th Jan 2018, one plant, the first ever seen on the Dyfi estuary W of the Leri.

**+046/17.3. Spergularia marina** (Lesser Sea-spurrey) (Troellig Arfor Bach). Below metal barrier at edge of road, by the Morrisons supermarket between Llanbadarn Fawr & Penparcau, SN595 804, C.Griffiths, 20th Jun 2018, at 1.5 km from the coast the most inland record in the v.c. to-date.

**+047/8.15.san. Rumex sanguineus var. sanguineus** (Blood-veined Dock). Along bottom of hedge beside minor road, c.0.75 km N of Glanrhyd, SN456 409, S.P.Chambers, 21st May 2018, scattered leaves along c. 3m. The 1st hectad record for the var.

**+061/1.2. Populus tremula** (Aspen) (Aethnen). between Penffordd & Glanrafon Isaf, 2.5 km NE of Tregaron, SN704 609, S.P.Chambers, 12th Jun 2018, one tree suckering in to edge of pasture from mixed shelterbelt woodland.

**+‡062/16.1. Aubrieta deltoidea** (Aubretia) (Cynfas Biws). Wall of derelict chapel, Blaencaron chapel, c. 2 km NE of Tregaron, SN708 611, S.P.Chambers, 12th Jun 2018.

**‡062/20.1. Lobularia maritima** (Sweet Alison) (Alyswm Pêr). c. 200 m W of Llanarth church, SN422 577, S.P.Chambers, 22nd Oct 2018, a few plants along road edge in front of garden wall.

**+062/22.2.ver. Erophila verna var. verna**. Llety caravan park, c. 0.5 km W of Tresaith, SN273 513, S.P.Chambers, 23rd Apr 2018, in many spots in small amounts on dry track edges in caravan field.

**‡073/1.3. Crassula helmsii** (New Zealand Pigmyweed) (Corchwyn Seland Newydd). N-shore of reservoir, Cwm Rheidol Reservoir, SN697 796, A.O. Chater, 27th May 2018, in vast quantities along reservoir edge. The first record from the main Afon Rheidol river system.

**‡073/5.7. Sedum spurium** (Caucasian-stonecrop) (Briweg y Cawcasws). W of Tresaith, SN279 514, S.P.Chambers, 23rd Apr 2018, a few patches on gravelly edge of road.

**‡074/07.1. Tolmiea menziesii** (Pick-a-back-plant) (Crydlys). Wooded river bank, Afon Teifi, 600 m WSW of Llechryd bridge, SN212 434, A.O.Chater & L.Gander, det. A.O. Chater, 8th May 2018, several large colonies. First hectad record at least for the VC46 part of the square. The species is now well-established on the Afon Teifi.

**+075/09.13.b. Potentilla erecta subsp. strictissima** (a subspecies of Tormentil). S side of the Afon Groes, c. 3.5 km ENE of Tregaron, SN716 605, S.P.Chambers, 11th Jun 2018, occasional plants scattered through ungrazed Molinia mire.

**‡075/12.1. Potentilla indica** (Yellow-flowered Strawberry) (Llwyn Mefus Melyn). Dry, SE-facing edge of minor road below rockface, opposite Upper Lodge, c. 2 km SW of Capel Dewi, SN444 406, S.P.Chambers, 29th May 2018, linear colony c. 1.5 x 0.25 m. The 1st record from the S of the v.c.

**+075/19.10.b. Alchemilla filicaulis subsp. vestita** (Mantell-Fair Flewog). Damp, sedge-rich pasture, between Rhos-erchan-fach & Rhos-erchan-fawr, c. 300 m S of
Capel Seion, SN633 788, S.P.Chambers, 10th Jun 2018, five plants over c. 5 x 10 m. Only the 3rd extant current natural site in the v.c.

+075/21.16 **Rosa sherardii** (Sherard's Downy-rose) (Rhosyn Sherard). Field hedgerow, 100m NW of Glanrafon Isaf, 2.5 km NE of Tregaron, SN704 610, S.P.Chambers, 12th Jun 2018.

+075/28.24. **Sorbus terminalis** (Wild Service-tree) (Cerddinen Wyllt). Roadside hedge, c. 400 m SW of Llanfair Clydogau, SN618 509, J.B.Bell, conf. S.P.Chambers, 8th Jun 2018, one trimmed tree in layered hedge. New site and only the 3rd hedgerow location for the species in the v.c.

+‡075/32.21. **Cotoneaster horizontalis** (Wall Cotoneaster) (Cotoneaster Asgwrn). Capel Bwlch-y-groes, c. 1.25 km SSE of Ffostrasol, SN378 462, S.P.Chambers, 10th Sep 2018, three plants on or by burial plots in chapel graveyard.

+‡075/32.35. **Cotoneaster rehderi** (Bullate Cotoneaster) (Cotoneaster Deiligrych Rehder). c.400 m SW of Bwlch-y-groes, SN374 461, S.P.Chambers, 10th Sep 2018, c.six mature, fruiting bushes, looking implanted in hedgerow.

+077/19.13. **Trifolium micranthum** (Slender Trefoil) (Meillionen Hopysaidd Eiddil). Pasture between Broom Covert & Rhos-erchan-fach, c. 0.5 km SSW of Capel Seion, SN631 786, S.P.Chambers, 10th Jun 2018, very locally frequent on dry semi-bare soil in pasture by livestock track.

+‡080/1.1. **Gunnera tinctoria** (Giant-rhubarb) (Rheonllys Mawr). Low scrub by path on coastal slope, above Traeth y Coybal, c. 1 km WSW of New Quay, SN372 592, J.P.Woodman & A.O.Chater, 17th Dec 2018, one young plant. Unusual coastal slope habitat for the species in the v.c.


+‡103/1.18. **Geranium lucidum** (Shining Crane's-bill) (Pig-yr-aran Loywddail). River boulder, E-side of the Afon Clettwr, c. 1 km SW of Capel Dewi, SN446 415, S.P.Chambers, 19th May 2018, one plant. A novel habitat for the species in the v.c.

+†118/01.8. **Stachys arvensis** (Field Woundwort) (Briwlys y Tir Âr). Verge of minor road by sheep field entranceway, c. 0.5 km NW of Brynele, c. 2.5 km SW of Bethania, SN562 607, S.P.Chambers, 16th Nov 2018, c. nine plants, some still in flower. New v.c. alt limit.

+†118/05.4. **Lamium hybridum** (Cut-leaved Dead-nettle) (Marddanhadlen Dorddail). c.200 m SW of Esgeronen Fawr, 1 km SW of Llanarth, SN416 568, S.P.Chambers, 22nd Oct 2018, at least three plants in corner of weedy field.

+†118/23.3. **Mentha spicata** (Spear Mint) (Mintys Ysbigog). Car park behind public house, Ffostrasol, SN372 476, S.P. Chambers, 24th Sep 2018, several clumps flowering on dumped rubble.

+†118/23.3×4. **Mentha ×villosa** (Apple-mint) (Mintys Lletgrwn). Roadside bank, NW side of the B4343, SW of Glan Gors, c. 2 km NNE of Tregaron, SN690 622, S.P. Chambers, 30th Jun 2018.

†123/4.luc. **Ligustrum lucidum** (Tree Privet). [Scrub between road and stream, near Pen-y-nant at top of Cliff Terrace, Aberystwyth, SN590 826, R.G. Woods & A.O. Chater, 23rd Apr 2006, delete from VCCC. The bush reported in the Flora of Cardiganshire (see p.588) is a large leaved form of Ligustrum ovalifolium, ].

+124/02.2. **Scrophularia auriculata** (Water Figwort) (Gwrnerth y Dwyr). Flushed wet till slopes under trees and scrub on coastal path, cliff path above Carreg y Ddafad, W of Tresaith, SN276 514, S.P. Chambers, 23rd Apr 2018, several patches over c.30 m; (+) building plot, Bont-goch (Elerch), SN683 864, M.D. Sutton, 10th May 2018.

+†124/09.1. **Misopates orontium** (Weasel’s-snout) (Y Trwyn-y-llo Lleiaf). Gravel driveway, Winllan, 2 km NE of Tal-sarn, SN567 574, A.O. Chater & S.P. Chambers, 14th Jun 2018, one plant, on driveway but only a few metres away from a garden potato patch.

+†124/16.19. **Veronica agrestis** (Green Field-speedwell) (Rhwyddlwyn-y-maes Gwyrdd). Dol-y-pandy/Melindwr Terrace junction, Capel Bangor, SN658 799, S.P. Chambers, 29th Oct 2018, locally abundant along c. 3 m length of pavement edge beside garden hedge.


+130/6.07. **Galium album** (Hedge Bedstraw) (Briwydd y Clawdd). Grassland beside pathway kerb at edge of graveyard, near W-entrance doorway, Llanarth church, SN422 577, S.P. Chambers & S. Hancock, det. S.P. Chambers, 28th Apr 2018, one patch c. 1 x 1 ft. A new (the 8th) churchyard site for this uncommon species in the v.c.

+132/1.1. **Adoxa moschatellina** (Moschatel) (Mwsglys). Around base of trunk of large Oak on old fieldbank, S of trackway between Penlone and Plasbach, c. 1 km SSE of Stags Head, SN643 580, S.P. Chambers, 11th Mar 2018, small colony c. 0.25 x 0.2 m.

+134/3.1. **Knautia arvensis** (Field Scabious) (Clafrrlys y Maes). NW-facing side of double-fenced field bank between sheep pastures, c. 150 m SW of Goitre, 1 km SW of Llanarth, SN409 564, S.P. Chambers, 22nd Oct 2018, several plants along c. 5 m of bank. The 1st hectad record since 1970, a new site and possibly v.c. alt limit.
+‡135/19.2. *Tragopogon porrifolius* (Salsify) (Barf-yr-afr Gochlas). Bont-goch (Elerch), SN683 864, M.D.Sutton, 10th May 2018, one or two plants in rough grassland on building plot.


+138/2.1. *Stratiotes aloides* (Water-soldier) (Milwr y Dŵr). Ornamental pond, Pontfaen, c. 2.5 km NW of Cribyn, SN493 525, M.D.Sutton, 25th May 2018, almost certainly planted in. The only current VC site.


+‡147/5.2.b. *Arum italicum subsp. italicum*. Pontrhydygroes, SN741 727, S.P.Chambers, 5th Apr 2018, c.4 clumps established on slope below footpath under trees.

+151/1.06. *Juncus foliosus* (Leafy Rush) (Brwynen Ddeiliog).Flushed and poached strip at top of field, c. 200 m NW of Dolau-ddeiliog on NE flank of Trychrug hill, SN547 603, S.P.Chambers, 7th Jan 2018, frequent tufts over c. 3 x 4 m.


+‡153/05.1 *Pseudosasa japonica* (Arrow Bamboo) (Bambŵ’r Saethau). Scrub beside footpath, near Tan-y-bryn, c. 3 km W of Tregaron, SN651 600, S.P.Chambers, 25th Mar 2018, c. 2 large clumps on rough ground.


+155/1.1. *Typha latifolia* (Bulrush) (Cynffon y Gath). 300 m NW of Tyngcoed, 1.5 km SE of Cors Caron/Tregaron Bog, SN702 618, S.P.Chambers, 30th Jun 2018, locally abundant forming stands around pool in sub-upland valley mire.


⊙162/18.4×5. *Dactylorhiza xinsignis*. Hay meadow, Winllan, 2 km NE of Tal-sarn, SN566 572, S.P.Chambers & A.O.Chater, det. S.P.Chambers, 14th Jun 2018, hybrid swarm. The 1st v.c record since the 1950s
MONTGOMERY, v.c.47 (comm. A.K. Thorne)

+001/3.1. **Lycopodium clavatum** (Stag’s-horn Clubmoss) (Cnwp-fwsogl Corn Carw). Cerrig Cwn (W of Foel), SH92621 14832, Gillian & Peter Foulkes, 11th Jul 2018, patch 2sq.m on side of track in conifer plantation with Calluna; (+) Cerrig Cwn (W of Foel), SH92827 14709, Gillian & Peter Foulkes, 11th Jul 2018, 1 plant on side of track in conifer plantation growing with Calluna.


+015/1.1. **Asplenium scolopendrium** (Hart's-tongue) (Tafod yr Hydd). Dovey Junction (Dyfi Junction), SN69 97, Gillian & Peter Foulkes, 16th Mar 2018; (+) Afon Dillw (Elan watershed), SN84 77, A.K. & W.I.J. Thorne, 18th Oct 2018, very small plants on old bridge remnant.


+017/3.05. **Dryopteris aemula** (Hay-scented Buckler-fern) (Marchredynen Bêr). Coed Brynmelyn (Glaspwwl), SN74 98, Gillian & Peter Foulkes, conf. A.K.Thorne, 12th Sep 2018.


†043/1.04. **Chenopodium bonus-henricus** (Good-King-Henry) (Llysiau’r Gwrda). Hyssington, SO31 93, A.K.Thorne, 26th Nov 2018, enriched ground around grassland knoll.

+043/1.06. **Chenopodium rubrum** (Red Goosefoot) (Troed-yr-wydd Coch). Pentre Cilecw (Pennant), SN87 96, P.Foulkes, 31st Aug 2018, on manure heap at Cilecw
fawr; (+) Talerddig (West of), SN90 99, Gillian & Peter Foulkes, 22nd Jul 2018, abundant on manure heap.


*043/6.3.agg. **Salicornia europaea agg.** Dovey Junction SSSI (Dyfi SSSI), SN69 97, M.Lewis & Dyfi Saltmarsh Group, 6th Sep 2018, single plant on tidal mud at source of R. Llyfnant.


*046/17.2. **Spergularia media** (Greater Sea-spurrey) (Troellig Arfor Mawr). Dovey Junction SSSI (Dyfi SSSI), SN69 97, K.Thorne & Dyfi Saltmarsh Group, 6th Sep 2018, salt marsh/floodplain.


+046/17.4. **Spergularia rubra** (Sand Spurrey) (Troellig Arfor Coch). Dovey Junction (Dyfi Junction), SN69 97, G.Foulkes, 27th Jul 2018, on rough ground by new pedestrian bridge over Llyfnant.

*†047/4.6. **Polygonum rurivagum** (Cornfield Knotgrass) (Canclwm y Tir Âr). Llandrinio, SJ2996 1699, D.Wrench, 15th Jun 2017, record received 2019, held by BIS, originated from iRecord Download 06/09/2017.


+061/2.10×11. **Salix ×reichardtii**. Husky Hall (Kerry), SO17 87, J.Clayfield, 2nd Jan 8-07.


+062/22.2. **Erophila verna** (Common Whitlowgrass) (Llysiau’r-bystwn Cynnar). Clywedog (S side), SN88 89, G.Foulkes, 2nd Jan 8-06, around parking posts at SN886893; (+) Clatter, SN99 94, G.Foulkes, 18th Apr 2018; (+) Machynlleth Railway Station, SH744 013, Gillian & Peter Foulkes, 9th Apr 2018, several plants growing at edge of platform on SW side of station; (+) Llanerfyl (Tŷhwnt-ir-parc), SJ03 11, A.K. & W.I.J. Thorne, 5th May 2018, dry bank. Hairiness checked.


+062/23.5.‡ **Cochlearia danica** (Danish Scurvygrass) (Llwyllys Denmarc). Machynlleth Railway Station, SH744 013, Gillian & Peter Foulkes, 9th Apr 2018, growing around edge of station forecourt where salting has taken place.


+062/34.5.‡ **Brassica nigra** (Black Mustard) (Mwstard Du). Cemmaes Road west of, SH80 04, G.Foulkes, 15th Jul 2018.

+†062/35.1. **Sinapis arvensis** (Charlock) (Mwstard Gwyllt). Dylife, SN86 93, Gillian & Peter Foulkes, 14th Oct 2018, 4 plants on road verge.


*‡065/8.3. **Gaultheria mucronata** (Prickly Heath) (Gweunlwyn Pigog). Llyfnant Valley, SN73 97, G.Foulkes, 24th Sep 2018, growing on verge of minor road near Glaspwll at SN739.976 not obviously planted but extensive forestry take-out further along road.

**Umbilicus rupestris** (Navelwort) (Deilen Gron). Dovey Junction SSSI (Dyfi SSSI), SN69 98, K. Williams, 6th Sep 2018, rocky knoll; (+) Rhyd, Cwm Llwyd, SH 97 00, A.K. Thorne, 6th Dec 2018, road verge/hedgerow.


**Rosa caesia subsp. vosagiaca × R. canina** (? × ?). S of Llangurig, SN909 786, A.K. Thorne, 28th Jul 2018, R. Maskew commented “probably R. squarrosa x vosagiaca as the leaf margins are partially biserrate and glandular”. Persistent patent sepals on very ripe hips in October 2018.


+‡106/1.hib. **Hedera hibernica**. Dovey Junction SSSI (Dyfi SSSI), SN69 98, K.Thorne & Dyfi Saltmarsh Group, 6th Sep 2018, hairs checked Rocky knoll; (+) Afon Dillw (Elan watershed), SN84 75, Gillian & Peter Foulkes, 16th May 2018, hairs checked; (+) Afon Dillw (Elan watershed), SN84 76, Gillian & Peter Foulkes, 16th May 2018, hairs checked; (+) Coedydd y Beili, Malgwyn a Cribin SSSI, Llangurig, SN89 83, A.K. & W.I.J. Thorne, 8th Jun 2018, hedge close to Hall; (+) Aberangell (North west of), SH83 10, Gillian & Peter Foulkes, 8th Apr 2018; (+) Lake Vyrnwy (Hirddu Fawr), SH95 21, Gillian & Peter Foulkes, 5th Aug 2018, hairs checked; (+) Newtown (Stepaside), SO08 89, A.K.Thorne, 16th Nov 2018, river bank. hairs checked; (+) Montgomery (Pen-y-bryn), SO24 94, A.K.Thorne, 19th Nov 2018, hedge close to Hall; (+) Llanfihangel-yng-Ngwynfa, SJ07 16, A.K. & W.I.J. Thorne, 28th Apr 2018, hairs on young shoots and leaves checked with microscope.

+107/02.1. **Sanicula europaea** (Sanicle) (Clust yr Arth). Wye Valley (Llanifyny), SN86 81, Lizzie Beare, Sue Southam, Rachel Meade & Sylvia Backhouse, 19th Jun 2018.

+‡110/9.1. **Datura stramonium** (Thorn-apple) (Afal Dreiniog). Ystrad Dolwen (Llangurig), SN931 796, Sheila & Stanley Turner, 2nd Jan 8-08, several plants in arable field margin.


+†118/01.8. **Stachys arvensis** (Field Woundwort) (Briwlys y Tir Âr). Carreglofa Hall (near), SJ2525 2155, S.Swindells, 17th Oct 2018, approx 12 plants scattered in gateway to maize field.

+118/06.5. **Galeopsis bifida** (Bifid Hemp-nettle) (Y Benboeth Hollt). Llanrhaeadr-y-mdochnant (Cefn Coch), SJ100 269, S.Swindells, 1st Sep 2018, a few plants on laneside verge.


+124/05.1. **Limosella aquatica** (Mudwort) (Lleidlys). Berriew (Pant-y-ffridd), SJ1579 0290, D.Wrench, 30th Jul 2018, at least 5 plants flowering very well and producing lots of stolons.

‡124/11.1. **Cymbalaria muralis** (Ivy-leaved Toadflax) (Trwyn-y-llo Dail Eiddew). Rhyd, Cwm Llwyd, SH97 00, A.K.Thorne, 6th Dec 2018, on wall.


+124/19.3. **Melampyrum pratense** (Common Cow-wheat) (Gliniogai). Cwm (Drewyn Dingle), SO265 905, R.Rowe, 16th May 2018, central GR for wooded dingle.


×124/20.03×07. **Euphrasia anglica** × **E. nemorosa** = **E. × glanduligera** Wettst. Gwerni Gleision (Dyfnant), SJ00 17, A.K. & W.I.J. Thorne & Montgomeryshire Flora Group, conf. C.Metherell, 13th Sep 2018, plantation track. CM ref 2018/333. 'Very small leaves overall, which are rather narrow. The CL have very sharp teeth (acuminate with occasional aristate ones). This combined with the leaf shape suggests this hybrid. It could be × rostkoviana rather than × anglica but I prefer the latter as it is, in general, much commoner and this suggests that there is more of a hybridisation barrier perhaps. Also the flexuous nature of the plants suggests this. (CM)'.


*125/1.2. **Lathraea clandestina** (Purple Toothwort) (Deintlys Porffor). Centre for Alternative Technology, SH752 045, R.Gritten, 17th May 2007, riverside site near CAT, single plant. Record received 2019, held by BIS.

130/6.07. **Galium album** (Hedge Bedstraw) (Briwydd y Clawdd). Llanfechain, SJ189 203, S.Swindells, 26th May 2018, 0.5m square patch on edge of community car park; (+) Carreghofa Hall (near), SJ251 2015, S.Swindells, 17th Oct 2018, a few small plants scattered in gateway to maize field.

*135/05.1. **Carduus tenuiflorus** (Slender Thistle) (Ysgallen Flodfain). Clatter (Alltwnnog), SO0147 9461, R.Martin & Montgomeryshire Flora Group, 17th May 2018, plants noted between about SO01469465 and SO01479454 with the largest group at SO01479461. Estimate of between 50 and 100 plants, all flanking a rough track; (*) Clatter (Alltwnnog), SO015 943, W.I.J.Thorne & Montgomeryshire Flora Group, 17th May 2018, regenerating felled forest area. Single plant by track.


*†138/6.1. **Lagarosiphon major** (Curly Waterweed) (Ffugalaw Crych). Pant-y-drain (E of Kerry), SO17 89, J.Clayfield, 2nd Jan 8-07, pool at Pant-y-drain.

+142/1.02. **Potamogeton polygonifolius** (Bog Pondweed) (Dyfrllys y Gors). Dovey Junction SSSI (Dyri SSSI), SN69 98, P.Foulkes, 6th Sep 2018, pond in rocky knoll.

+142/1.15. **Potamogeton berchtoldii** (Small Pondweed) (Dyfrllys Bach). Talerddig (West of), SN90 99, Gillian & Peter Foulkes, 9th Aug 2018, in small pond (man-made) at SN900999 but some distance from houses.


+152/16.51. **Carex caryophyllea** (Spring-sedge) (Hesgen Gynnar). Afon Dillw (Elan watershed), SN84 75, Gillian & Peter Foulkes, 16th May 2018; (+) Afon Dillw (Elan watershed), SN84 76, Gillian & Peter Foulkes, 16th May 2018; (+) Cors Llwyd, SN85 75, Gillian & Peter Foulkes, 16th May 2018, hillside N of Afon Ystwyth.
+152/16.65. Carex acuta (Slender Tufted-sedge) (Hesgen Tywysennau Main [ennau main/meinion]). River Severn - Welshpool to Edgerley, SJ27888 13770, D.Wrench, 3rd Jun 2016, record received 2019, held by BIS, originated from iRecord Download.

+152/3.1. Eleocharis palustris (Common Spike-rush) (Ysbigfrwynen). Eisteddfaf Gurig, SN80434 84382, Gillian & Peter Foulkes, 8th Jun 2018, at W end of muddy (dried-up) area 5 x 5m patch with a smaller patch close-by.


+159/05.03. Iris pseudacorus (Yellow Iris) (Gellesgen). Pant-gwyn Hill (Llangurig), SN89 78, Peter Foulkes, John Clayfield & Sheila Turner, 19th Jun 2018.

162/02.2. Cephalanthera longifolia (Narrow-leaved Helleborine) (Y Galdrist Gulddail). Kerry (nr Windy Hall), SO153 879, J.Clayfield, 1st May 2018, several
groups of spikes in central area of wood nr footpath. One plant at north end of wood.

30 flowering spikes. 2nd Well's site for county

MERIONETH, v.c.48 (comm. S. Stille)

.Restricted


015/2.3. Asplenium obovatum (Lanceolate Spleenwort) (Duegredynen Hirgul). Cliffs, Portmeirion, SH58 36, Iwan Williams & Cymdeithas Edward Llwyd, 16th Sep 2018, 2nd update since 2000; Portmeirion Marshes, SH68 37, C.M.Lovatt & Caerdeon Group, 22nd Jul 2018, 1st hectad update since 2000 for this Rare taxon.


‡046/01.1.c.+ Arenaria leptoclados (Slender Sandwort). Morfa Dyffryn, SH56 23, M.Duffell & J.Handley, 20th May 2018, 1st hectad record for this RPR taxon (in both H5623 and SH5722).


**+‡077/25.4. Genista anglica** (Petty Whin) (Cracheithinen). Dduallt Station, SH679 421, J.J.A.Hughes, 15th May 2018, a population of a dozen or so plants.


135/31.1. Antennaria dioica (Mountain Everlasting) (Edafeddog y Mynydd). Rhobell Fawr, SH793 256, Barbara Brown, 3rd Jun 2018, new site and hectad update for this Rare taxon.


**+143/1.1. Ruppia maritima** (Beaked Tasselweed) (Tusw Arfor). Dyfi Junction SSSI, SN60 54, K.Thorne & Dyfi Saltmarsh Group, 6th Sep 2018.


**+‡152/11.1. Cyperus longus** (Galingale) (Ysnoden Fair). Portmeirion, SH58 37, F.Anstey, 10th Jul 2018.

**+‡152/16.41. Carex distans** (Distant Sedge) (Hesgen Blodau Pell). Dyfi Estuary, Ynys Crossing, SN68 97, C.M.Lovatt & Caerdeon Group, 23rd Jul 2018; (‡+) Dyfi


CAERNARFON, v.c.49 (comm. W. McCarthy)

+‡002/1.2. **Selaginella kraussiana** (Krauss's Clubmoss) (Cnwp-fwsogl Krauss). Lawns in botanic garden, Treborth, Bangor, SH55 71, W.McCarthy, M.Roberts & D.Evans, Jan 2018.


+031/5.03. **Fumaria bastardii** (Tall Ramping-fumitory) (Mwg-y-ddaear Grymus). Field edge, Nantlle, SH51 53, Mari Roberts, 9th Oct 2018.

+031/5.03.hib. **Fumaria bastardii var. hibernica**. Sandy bank near cottage, Boduan, SH32 37, Caerns. Recording group, 18th May 2018.

+‡040/2.2. **Alnus incana** (Grey Alder) (Gwernen Lwyd). Small plantation at field edge, Conwy, SH75 76, W.McCarthy, 17th Jul 2018.
+040/3.1.‡  **Carpinus betulus** (Hornbeam) (Oestrwydden). Hedgebank in lane, Boduan, SH32 37, Caerns. Recording group, 18th May 2018.


+043/3.02×06. **Atriplex ×hulmeana**. Sand dune, Pwllheli, SH38 34, I.Rees, 8th Sep 2018, a single plant with leaf shapes & small acutely-pointed bracteoles to fit the hybrid between A. littoralis & A. prostrata.


+†061/2.09. **Salix viminalis** (Osier) (Helygen Wiail). Pond edge, Morfa Nefyn, SH29 40, W.McCarthy & M.Roberts, 10th Jun 2018.

+061/2.9×11. **Salix ×smithiana**. Near hedge on limestone grassland, Nant y Gamar, Llandudno, SH80 81, W.McCarthy, 1st Oct 2018.


+‡062/14.4. **Cardamine raphanifolia** (Greater Cuckooflower) (Blodyn Llefrith Mawr). Stream in woodland, Nantlle, SH50 52, W.McCarthy & M.Roberts, 22nd May 2018, first reported by G. Pierson as mystery plant in private woodland.


+069/1.3. **Primula veris** (Cowslip) (Briallen Fair). Amenity grassland, Pwllheli, SH37 34, M. Roberts, 2nd May 2018.


+075/08.03.090. **Rubus amplificatus**. Shaded woodland, Ysbyty Ifan, SH82 52, W.McCarthy, 1st Oct 2018.

+075/08.03.106. **Rubus incurvatus**. Hedge bank, Maenan, SH80 66, W.McCarthy, 18th Jul 2018.

+‡075/08.05.134. **Rubus armeniacus**. Waste ground near footpath, Bethesda, SH62 67, W.McCarthy, 2nd Nov 2018; (+) river bank, Llanrwst, SH79 62, W.McCarthy, 12th Sep 2018.

+075/08.05.142. **Rubus ulmifolius**. Hedge bank, Maenan, SH80 66, W.McCarthy, 18th Jul 2018.

+075/08.08.185. **Rubus griffithianus**. Hedge bank, Maenan, SH80 66, W.McCarthy, 18th Jul 2018.


\[†075/17.3.b. \textbf{Poterium sanguisorba subsp. balearicum} \textit{(Fodder Burnet) (Bwrned Ebran). Amenity grassland, Pwllheli, SH37 34, M. Roberts, 2nd May 2018.}
\[†075/21.05.06. \textbf{Rosa rugosa} \textit{(Japanese Rose) (Rhosyn Japan). Sandy shingle beach, Penrhyn Bay, SH82 81, W.McCarthy, 23rd Jul 2018.}
\[†075/22.03. \textbf{Prunus cerasifera} \textit{(Cherry Plum) (Coeden Goeg-geirios). Side of cycle track, Llanflaglan, SH47 60, W.McCarthy, M.Roberts & L BALL, 13th Apr 2018.}
\[†075/32.35. \textbf{Cotoneaster rehderi} \textit{(Bullate Cotoneaster) (Cotoneaster Deilgrych Rehder). Heathland, Mynydd y Graig, Rhiw, SH22 27, J.J.Day, 9th Aug 2016, self sown.}
\[†075/32.39. \textbf{Cotoneaster franchetii} \textit{(Franchet's Cotoneaster) (Cotoneaster Franchet). By footpath near houses, Bethesda, SH62 66, W.McCarthy & M.Roberts, 2nd Nov 2018.}
\[084/1.05. \textbf{Epilobium tetragonum} \textit{(Square-stalked Willowherb) (Helyglys Pedronglog). Waste ground, Pen yr Allt, Rhiw, SH24 28, J.J.Day, 11th Aug 2016.}
\[084/1.07. \textbf{Epilobium roseum} \textit{(Pale Willowherb) (Helyglys Gwelw). Wall base in village, Tregarth, SH60 67, W.McCarthy, M.Roberts & L Ball, 12th Sep 2018.}
\[†084/5.1. \textbf{Fuchsia magellanica} \textit{(Fuchsia) (Ffiwsia). Castle surrounds, Criccieth, SH50 37, J.J.Day, 3rd Aug 2016.}
\[102/1.03.cor.atr. \textbf{Oxalis corniculata var. atropurpurea}. Ty Mawr, Bryncroes, SH21 31, J.J.Day, 31st Jul 2016, 1st record in hectad for species for at least 50 years, and 1st for var. atropurpurea.
\[†103/1.23. \textbf{Geranium phaeum} \textit{(Dusky Crane's-bill) (Gweddw Alarus). Lane bank, Bontnewydd, SH49 59, W.McCarthy, M.Roberts & L Ball, 5th Apr 2018.}
\[†106/FAT.jap. \textbf{Fatsia japonica} \textit{(Fatsia) (Ffatsia). Under trees above riverbank, Betws y Coed, SH79 75, W.McCarthy, M.Roberts & L BALL, 12th Sep 2018, presumed thrown out from nearby flowerbeds, evidence of discarded bedding plants nearby.}
\[†110/1.1.© \textbf{Nicandra physalodes} \textit{(Apple-of-Peru) (Afal Periw). Raised vegetable bed, Bangor, SH55 71, W.McCarthy & M.Roberts, 30th Jul 2018, three plants, origin unknown by gardener.}
\[*117/1.bon. \textbf{Verbena bonariensis} \textit{(Argentinian Vervain) (Ferfain yr Ariannin). Wall base at roadside, Criccieth, SH50 38, S.Coleman, 21st Jul 2018, 1st record (a previous record was received but without date or site detail); (+) paving cracks, Penrhyn Bay, SH82 81, W.McCarthy, 23rd Jul 2018, 2nd record.}
\[†118/05.1. \textbf{Lamium album} \textit{(White Dead-nettle) (Marddanhadlen Wen). Roadside verge, Llanfairfechan, SH67 73, E.Phenna, 26th Sep 2018.}
\[†118/05.2. \textbf{Lamium maculatum} \textit{(Spotted Dead-nettle) (Marddanhadlen Fraith). Grass bank by ruined cottage, Dolgarrog, SH75 68, W.McCarthy & M.Roberts, 27th Sep 2018.}
Campanula persicifolia (Peach-leaved Bellflower) (Clychlys Meinddail).
In hedgebank, Llanfairfechan, SH67 73, E.Phenna, 26th Sep 2018.

Cruciata laevipes (Crosswort) (Llysiau’r Groes). Hedgebank in lane, Dolgarrog, SH75 68, W.McCarthy & M.Roberts, 12th Jun 2018.


Cichorium intybus (Chicory) (Ysgellog). Disturbed bank above the sea, Penrhyn Bay, SH82 82, W.McCarthy, 23rd Jul 2018.


Phalaris canariensis (Canary-grass) (Pefrwellt yr Adar). Roadside, Caeathro, SH49 61, Mari Roberts, 26th Sep 2018.


**159/02.5. Sisyrinchium striatum** (Pale Yellow-eyed-grass) (Sisirinciwm Melyn Mawr). Lane bank, Bryn Pydew, SH81 79, D.A.Evans, 17th Jun 2018, 2nd v.c. record.

**159/05.03. Iris pseudacorus** (Yellow Iris) (Gellesgen). Wet field corner, Penmachno, SH81 52, W.McCarthy, 10th Jul 2018.


**162/03.4. Epipactis helleborine** (Broad-leaved Helleborine) (Y Galdrist Lydanddail). By track in woodland, Llanrhos, SH80 80, W.McCarthy, 25th Jul 2018

DENBIGH, v.c.50 (comm. D. Williams)

**001/3.1. Lycopodium clavatum** (Stag's-horn Clubmoss) (Cnwp-fwsogl Corn Carw). Nant-y-Dramwys Wood West, SJ1673 3913, M.O.Stead, 6th Oct 2018, 8 plants, east side of track, 12 cones.

**005/1.1. Ophioglossum vulgatum** (Adder's-tongue) (Tafod y Neidr). Maeshafn South, SJ20485 60426, M.O.Stead, 21st May 2018, 1 leaf in field south of pond.

**016/4.1. Gymnocarpium dryopteris** (Oak Fern) (Rhedyrenn Dridarn). Henfryn, SH9964 6090, Denbs Group, 24th Jun 2018, shaded lane. Up to 1m above lane to 10m along lane on south bank. Abundant.

**017/3.03b. Dryopteris cambrensis**. Moel Unben, SH9113 6741, D.Williams, 19th Jul 2018, single plant. Basal pinnules completely covering rachis. north side of track to farm.

**‡020/1.3.© Abies procera** (Noble Fir) (Ffynidwydden Urddasol). Mynydd Garthmyn East, SH8128 5658, Denbs Group, 15th Jul 2018, laneside near houses, 2 mature trees.


**‡020/7.mug. Pinus mugo** (Dwarf Mountain-pine) (Pinwydden y Mynydd). Coed Diffwys, SJ03 57, D.Williams & M.O.Stead, 1st Apr 2018, planted extensively along track and escarpment.


**‡039/2.2. Nothofagus alpina** (Rauli) (Ffawydden Ddeheuol Rauli). Bryn Dinas, SJ170 249, S.Swindells, 29th May 2018, 1 mature tree on edge of laneside woodland.


Chenopodium ficifolium (Fig-leaved Goosefoot) (Troed-yr-wydd Dail Ffigys). Bryn-gwian, SH82 67, Denbs Group, det. D.Williams, 29th Jul 2018, roadside; (+) Rhyd-Eden, SH9099 6620, D.Williams, 19th Jul 2018, roadside hedgebanks. A few plants on north side of road.


Beta vulgaris subsp. maritima (Sea Beet) (Betysen Arfor). Marine Lake, SJ00 80, M.O.Stead, 8th Nov 2018.

Stellaria pallida (Lesser Chickweed) (Gwlyddyn y dom Bach). Chirk South, SJ2869 3780, M.O.Stead, 12th Apr 2018, grassed area of corner to industrial estate.

Cerastium semidecandrum (Little Mouse-ear) (Clust-y-ll ygoden Fach). Aran Fach, SJ172 258, S.Swindells, 5th May 2018, scattered and flowering on south-facing rocky hillside.

Fallopia sachalinensis (Giant Knotweed) (Y Glymog Fawr). King's Mills, SJ3423 4908, Tom Knight, 24th Jul 2018, Lewis Wood. Quite large stand over Badger sett.


Tilia platyphyllos (Large-leaved Lime) (Pisgwydden Dail Mawr). Ffynnonlas, SJ19 41, M.O.Stead, 9th Jun 2018.


Viola tricolor subsp. tricolor. Tal-y-cafn, SH7878 7173, Denbs Group, 9th Aug 2018, a few flowering in sandy waste area next to pub. Coastal ecotype?


Rorippa palustris (Marsh Yellow-cress) (Berwr Melyn y Gors). Tal-y-cafn, SH7878 7173, Denbs Group, 9th Aug 2018, carpark and waste area next to pub.
**‡062/25.2. Capsella rubella** (Pink Shepherd's-purse) (Pwrs-y-bugail Gwridog).
Graigfechan, SJ1479 5414, D.Williams, det. M.O.Stead, 6th Apr 2018, along east side of lane at base of wall. Owner puts weedkiller here frequently. **Hb D.W.**


+‡062/30.2. **Lepidium campestre** (Field Pepperwort) (Pupurlys y Maes). Rhyd-Eden, SH9099 6620, D.Williams, 19th Jul 2018, roadside hedgebanks. A few plants on north side of road.

+062/42.1. **Raphanus raphanistrum** (Rhuddygl). Hafod Elwy, SH9324 5712, Denbs Group, det. D.Williams, 16th Sep 2018, disturbed soil by renovated verge north side of A543 road.

+072/2.2. **Ribes spicatum** (Downy Currant) (Llwyn Cwrens Gwlanog). Helmydd, SH8344 6860, Jonathan D.Shanklin, 19th Nov 2018, former stone quarry by road.

+074/05.15. **Saxifraga granulata** (Meadow Saxifrage) (Tormaen y Gweunydd). Gresford West, SJ3464 5495, J.B.Formstone, 24th May 2018, hundreds in Gresford Churchyard.

‡075/08.0.06. **Rubus parviflorus** (Thimbleberry) (Llwyn Mafon y Gorllewin).

+‡075/08.0.09. **Rubus spectabilis** (Salmonberry) (Miaren Oren). Garth-oby North, SJ259 392, S.Swindells, 12th Jun 2018, at least 4 plants, some fruiting, in small quarry just off lane.

+075/15.2. **Agrimonia procera** (Fragrant Agrimony) (Llysiaw’r-dryw Pêr). St. George, SH9724 7534, Denbs Group, 10th Jun 2018, large patch on west side of lane below quarry 'Keep Out' sign; (+) Cefn Du, SJ0482 5597, M.O.Stead, 26th Jun 2018, large patch, south-east corner of road verge by railings.

Large patch; (+) Nant-y-Dramwys Wood West, SJ1686 3879, M.O.Stead, det. D.Williams, 1st Aug 2018, upland forestry track. Large patch.


+‡075/32.34. **Cotoneaster bullatus** (Hollyberry Cotoneaster) (Cotoneaster Deilgrych). Llanerch-yr-aur, SJ1491 2195, S.Swindells, det. J.Fryer, 7th Sep 2018, approx. 4m
tall growing near edge of lane with hazel, alder, ash & opposite-leaved golden saxifrage.

+‡080/1.1. **Gunnera tinctoria** (Giant-rhubarb) (Rheolllys Mawr). Tal-y-cafn, SH7991 7142, Denbs Group, 9th Aug 2018, proliferating in wild wooded area.


+‡084/4.5. **Oenothera stricta** (Fragrant Evening-primrose) (Melyn yr-hwyr Pêr). Marchwiel, SJ3459 4752, Denbs Group, 23rd Sep 2018, verge by rectory. A few plants.


+‡116/09.1.© **Borago officinalis** (Borage) (Tafod yr Ych). Priddbwll, SJ1848 2680, Denbs Group, 8th Jul 2018, verges around house. Plants naturalised.

*‡117/1.bon. **Verbena bonariensis** (Argentinian Vervain) (Ferfain yr Ariannin). Wrexham Industrial Estate North, SJ3850 5051, Tom Knight, 16th Aug 2018, 1 plant. Habitat created in 2015, has not been seeded, it was created for Grizzled and Dingy Skipper butterflies. Vehicles/machinery could have brought in seeds.


+‡122/1.2×3 **Buddleja ×weyeriana** (Weyer’s Butterfly-bush) (Coeden-fêl Weyer). Llanerch-yr-aur, SJ1490 2197, S.Swindells, 7th Sep 2018. A flowering shrub approx. 2m tall on hedgebank above ditch with grey willow, bramble and sneezewort. A property about 70m away. 2nd VC record.

+‡124/08.2. **Chaenorrhinum minus** (Small Toadflax) (Trwyn-y-llo Bach). Bwlch Hafod Einion, SH9614 5119, M.O.Stead, 6th Jul 2018, occasional along forest track.

+124/13.3×4. **Linaria ×dominii (L. purpurea × L. repens)**. Minera Quarry, SJ2548 5210, Denbs Group, det. G.M.Kay, 2nd Sep 2018, north side of wooden bridge.


+124/20.01.a. **Euphrasia officinalis subsp. pratensis**. Coed Sara, SH836 666, Denbs Group, det. D.Williams, 29th Jul 2018, most likely - keys out well.


+124/20.05×07. **Euphrasia arctica × nemorosa**. Mynydd Garthmyn East, SH8111 5637, Denbs Group, det. C.Metherell, 15th Jul 2018, dry track entrance to farm.


+†135/35.1. **Inula helenium** (Elecampane) (Marchalan). Chirk South, SJ2868 3731, M.O.Stead, 16th Jul 2018, on concrete area on opposite side to towpath.


+†135/74.1.© **Ambrosia artemisiifolia** (Ragweed) (Bratlys). Cae Coch, SJ1447 5680, Denbs Group, 9th Sep 2018, corner of barley field with garden throw-outs, seeding.


+153/23.1. **Parapholis strigosa** (Hard-grass) (Caledwellt y Morfa). Mynydd Poeth, SH9579 5094, M.O.Stead, 6th Jul 2018, roadside by entrance to forest.


+†153/47.6. **Alopecurus myosuroides** (Black-grass) (Cynffonwellt Du). Wrexham Industrial Estate, SJ38 49, Tom Knight, 23rd Jul 2018, a few plants in disturbed area. Brought in with deliveries to site?

+153/58.1 **Hordelymus europaeus** (Wood Barley) (Heiddwellt y Coed)). Ruthin North West, SJ10440 59778, M.O.Stead, 20th Oct 2018, 5 x 2m patch between track and river under beech mixed woodland on limestone.


*‡159/02.3. **Sisyrinchium californicum** (Yellow-eyed-grass) (Sisirinciwm Melyn). St. George, SH9744 7575, Denbs Group (D.Williams), det. D.Williams, 10th Jun 2018, proliferating on unmade road by pub.

Houttuynia cordata. Marchwiel, SJ3555 4778, Lowden, G, det. D. Williams, 24th Sep 2018, north side of main A525 overgrowing front garden of old cottages

FLINT, v.c.51 (comm. G. Quartly-Bishop)


ANGLESEY, v.c.52 (comm. N.H. Brown & I.R. Bonner)


+©021/1.1×2.noo. ×Cupressocyparis leylandii (Cu. macrocarpa × Ch. nootkatensis) (Leyland Cypress) (Cypreswydden Leyland). Fryars, SH6132 7768, Ted Phenna, 23rd May 2018, tree on low clay cliff at top of beach.

+026/1.1. Nymphaea alba (White Water-lily) (Alaw). Llanfaes, SH60 77, Ted Phenna, 22nd Jun 2018, possibly introduced to golf course pond?

+030/2.1.‡ Meconopsis cambrica (Welsh Poppy) (Pabi Cymreig). Trearddur, SH26 78, Debbie Evans, 20th Apr 2018, road verge.

+031/5.03.hib. Fumaria bastardii var. hibernica. Menai Strait Shore SSSI, SH55 72, Jane & Ivor Rees, 29th Dec 2018, photo. EISR.


+040/2.2.© Alnus incana (Grey Alder) (Gwernen Lwyd). Llanerchymedd, SH4169 8410, Anglesey Flora Group, 29th Aug 2018, 6 well grown trees with cones, station carpark.

+040/2.3.© Alnus cordata (Italian Alder) (Gwernen yr Eidal). Holyhead (SE), SH2593 8147, Debbie Evans, 18th Oct 2018, hedge at entrance to Anglesey Aluminium site. Photo.


*043/3.03×05. Atriplex glabriuscula × praecox. Menai Strait, SH45 63, Jane & Ivor Rees, 24th Sep 2018, series of photos confirmed as this by Paul Green, based on Wexford material. 1st VCR.

*043/3.05. Atriplex praecox (Early Orache) (Llygwyn Cynnar). Menai Strait, SH45 63, Jane & Ivor Rees, 24th Sep 2018, shore by Plas Penrhyn. 1st VCR. Similar to plants confirmed as this taxon in Foryd Bay VC49.

+043/3.06. Atriplex littoralis (Grass-leaved Orache) (Llygwyn Arfor). Inland Sea (part), SH2798 7916, Jane & Ivor Rees, 23rd Jul 2018, several along strandline. Also seen by the AFG on 8th August.

+045/2.2. Claytonia sibirica (Pink Purslane) (Porpin Pinc). Trearddur, SH24 80, Debbie Evans, 1st May 2018, by footpath & adjacent verge.

+047/1.06.‡ Persicaria bistorta (Common Bistort) (Llysiau’r Leidr). Trearddur, SH24 80, Debbie Evans, 10th May 2018, damp verge on lane away from houses.


**Diplotaxis muralis** (Annual Wall-rocket) (Roced-y-muriau’r Tywod).
Llyn Alaw (part) S shore, SH38 85, Anglesey Flora Group, 14th Sep 2018, 3 plants on rubbly spoil heap.

**Primula ×polyantha** (False Oxlip) (Briallen Groesryw).

**Escallonia macrantha** (Escallonia) (Esgalonia).
Llaneilian, SH47 92, Anglesey Flora Group, 15th May 2018, road bank.

**Sedum spurium** (Caucasian-stonecrop) (Briweg y Cawcasws).
Four Mile Bridge SH2878, SH284 789, Debbie Evans, 8th Aug 2018, verge, garden throw-out.

**Rubus ulmifolius**.
Four Mile Bridge SH2878, SH28 78, Anglesey Flora Group, 8th Aug 2018, verge.

**Potentilla sterilis** (Barren Strawberry) (Llwyn coeg-fefus).
Trearddur, SH26 79, Debbie Evans, 23rd Apr 2018, verge of rough track/lane adjacent to scrubby woodland.

**Alchemilla mollis** (Garden Lady’s-mantle) (Mantell-Fair y Gerddi).
Trearddur Bay, SH25 79, Debbie Evans, 6th Jul 2017, on disturbed ground/building site and on a verge away from gardens; (+) Holyhead (SE), SH25 81, Debbie Evans, 27th Apr 2017, waste ground near Morrisons.

**Cotoneaster simonsii** (Himalayan Cotoneaster) (Cotoneaster Simons).
Trearddur Bay, SH25 79, Debbie Evans, 5th Jul 2017, hedgerow.

**Hippophae rhamnoides** (Sea-buckthorn) (Rhafnwydden y Môr).
Valley, SH283 796, Debbie Evans, 23rd Oct 2018, disturbed ground by Inland Sea.

**Linum usitatissimum** (Flax) (Llin).
Llanynghenedl, SH3178 8091, Debbie Evans, 12th Jul 2018, c.2 plants in Brassica crop, presumably left from former crop; (+) Llanfawr, SH44 73, Debbie Evans, 12th Jul 2018, field, presumably left from a previous crop.

**Rhus typhina** (Stag’s-horn Sumach) (Siwmac).
Four Mile Bridge SH2878 (SH2878), SH284 789, Debbie Evans, 8th Aug 2018, verge, garden escape/ planted? 1st VCR.

**Oxalis acetosella** (Wood-sorrel) (Suran y Coed).
Trearddur, SH26 79, Debbie Evans, 16th Nov 2018, on an elevated slope above the Inland Sea.

**Solanium nigrum subsp. nigrum**. Llyn Alaw (part) S shore, SH38 85, Anglesey Flora Group, 14th Sep 2018, on rubbly spoil.

**Solanum dulcamara** (Bittersweet) (Elinog).
+116/02.1. **Echium vulgare** (Viper's-bugloss) (Gwiberlys). Trearddur Bay (SH2578), SH2567 7898, Debbie Evans, 6th Jul 2017, coastal strip behind promenade.

+116/03.1. **Pulmonaria officinalis** (Lungwort) (Llysiau'r Ysgyfaint). Four Mile Bridge SH2878 (SH2878), SH284 789, Debbie Evans, 7th Jun 2018, verge, garden escape/planted?


+118/23.2×3.‡ **Mentha ×piperita** (Peppermint) (Mintys Poeth). Trearddur Bay (SH2578), SH2558 7864, Debbie Evans, 6th Sep 2017, verge, away from houses; (+) Trearddur Bay, SH25 79, Debbie Evans, 24th Jul 2017, brownfield site.

+118/23.4.‡ **Mentha suaveolens** (Round-leaved Mint) (Mintys Deilgrwn). Trearddur Bay, SH25 78, Debbie Evans, 9th Aug 2017, road verges.

+120/1.5. **Callitriche obtusangula** (Blunt-fruited Water-starwort) (Brigwlydd Ffrwythau Blaendwn). Llyn-y-Fydlyn, SH29 91, RA Jones, Jun 2018.

+‡122/1.3.© **Buddleja globosa** (Orange-ball-tree) (Coeden-fêl Peli Oren). Four Mile Bridge, SH2878, Debbie Evans, 18th Jun 2018, verge, garden escape/planted?

+‡123/1.sus×vir.© **Forsythia ×intermedia** (Forsythia) (Clychau Aur). Four Mile Bridge, SH28 789, Debbie Evans, 18th Jun 2018, verge, garden escape/planted?

+124/02.2. **Scrophularia auriculata** (Water Figwort) (Gwrnerth y Dwyr). Lleiniog (SH6279), SH6225 7938, Anglesey Flora Group, 5th Oct 2018, edge of coastal field.

+‡124/07.1. **Antirrhinum majus** (Snapdragon) (Trwyn y Llo). Trearddur Bay (SH2578), SH2570 7882, Debbie Evans, 6th Sep 2017, on a wall. Garden escape; (+) Glan-yr-afon (SH6080), SH6048 8091, Ted Phenna, 7th Sep 2018, several plants, roadside of garden wall, seeded from adjacent garden.


+‡131/5.1. **Leycesteria formosa** (Himalayan Honeysuckle) (Bachgen Llwm). Four Mile Bridge, SH28 78, Anglesey Flora Group, 8th Aug 2018.

+‡131/WEI.flo. **Weigela florida** (Weigela) (Weigela). Four Mile Bridge SH2878 (SH2878), SH284 789, Debbie Evans, 7th Jun 2018, verge, planted or garden throw-out.

+‡135/08.1. **Silybum marianum** (Milk Thistle) (Ysgallen Fair). Valley, SH2835 7853, Debbie Evans, 13th Nov 2018, 4 plants by path in field. First record since 1995.

†135/12.1. **Cichorium intybus** (Chicory) (Ysgellog). Trearddur Bay (SH2578), SH2567 7898, Debbie Evans, 6th Jul 2017, coastal strip behind promenade. Reconf of 1970-86 record in DDB.

+135/24.1. **Mycelis muralis** (Wall Lettuce) (Gwylaeth y Fagwyr). Four Mile Bridge SH2878 (SH2878), SH2876 7899, Debbie Evans, 7th Jun 2018, by shady wall at back of verge.
†135/27.6. **Pilosella aurantiaca** (Fox-and-cubs) (Clust-y-llygoden Euraid).
Malltraeth, SH41 69, Anglesey Flora Group, 28th Apr 2018.


*†135/38.1. **Telekia speciosa** (Yellow Oxeye) (Llygad-Ilo Melyn). Penhesgyn, SH537 743, Jane & Ivor Rees, 9th Jul 2018, at least 3 plants flowering on road verge.

†135/40.3. **Solidago canadensis** (Canadian Goldenrod) (Eurwialen Canada).
Bodedern, SH32 80, Debbie Evans, 12th Jul 2018, established on verge away from houses.

†135/43.4. **Erigeron karvinskianus** (Mexican Fleabane) (Amrhydlwyd y Cerrig).

†135/44.1. **Conyza canadensis** (Canadian Fleabane) (Amrhydlwyd Canada).
Trearddur Bay, SH25 79, Debbie Evans, 18th Jul 2018, waste ground.

†135/58.lac×max. **Leucanthemum ×superbum** (Shasta Daisy) (Y Llygad-Ilo Mwyaf). Lleiniog (SH6279), SH6225 7938, Anglesey Flora Group, 5th Oct 2018, edge of coastal field.

†135/62.01. **Senecio cineraria** (Silver Ragwort) (Creulys Ariannaid). Lleiniog (SH6279), SH6225 7938, Anglesey Flora Group, 5th Oct 2018, edge of coastal field.


†135/73.1. © **Calendula officinalis** (Pot Marigold) (Melyn Mair). Trearddur Bay, SH25 79, Debbie Evans, 7th Jul 2017, corner of marsh/car park.

†135/80.2. © **Galinsoga quadriradiata** (Shaggy-soldier) (Galinsoga Blewog). Valley, SH2832 7960, Debbie Evans, 23rd Oct 2018, disturbed ground by Inland Sea and large stand on nearby verge. 2nd VCR.

†138/6.1. **Lagarosiphon major** (Curly Waterweed) (Ffugalaw Crych). Coed & Plas Llwynonn (SH5169), SH5115 6955, John Bratton, 22nd Nov 2016, garden pond, Plas Llwynonn.

+142/1.01. **Potamogeton natans** (Broad-leaved Pondweed) (Dyfrllys Llydanddail).

+142/1.15. **Potamogeton berchtoldii** (Small Pondweed) (Dyfrllys Bach). Llyn-y-Fyldlyn, SH29 91, RA Jones, Jun 2018.

‡148/2.tur. **Lemna turionifera**. Pen-y-Bont Farm (East) (SH4268), SH4248 6818, John Bratton, 11th Sep 2016, ditch.

*152/16.05×15. **Carex ×pseudoaxillaris**. Llangoed (East) (SH6179), SH6190 7910, Anglesey Flora Group, 5th Oct 2018, beside path through rank, damp grassland. (estim g.r.) Herb. Richard Birch. 1st VCR.


+153/38.1. pic. **Phalaris arundinacea var. picta** (Gardener’s Garters). Trearddur Bay, SH24 79, Debbie Evans, 1st May 2018, established by coastal path, presumed garden escape.

+153/49.2. **Phleum bertolonii** (Smaller Cat's-tail) (Rhonwellt Penfain). Four Mile Bridge SH2878 (SH2878), SH2805 7839, Debbie Evans, 7th Jun 2018, on bridge.


*‡158/06.1. **Kniphofia uvaria** (Red-hot-poker) (Procer Poeth). Trearddur Bay, SH25 79, Debbie Evans, 6th Sep 2017, sandy land behind the promenade. 1st VCR.

+‡158/18.umb. **Ornithogalum umbellatum** (Garden Star-of-Bethlehem). Trearddur, SH248 800, Debbie Evans, 22nd May 2018, verge, garden escape.

+158/35.1.‡ **Ruscus aculeatus** (Butcher's-broom) (Celynnen Fair). Trearddur, SH2644 7970, Debbie Evans, 18th Jul 2018, several bushes both sides of track.

+‡160/1.glo. **Yucca gloriosa** (Spanish-dagger). Lleiniog, SH62 79, Anglesey Flora Group, 5th Oct 2018, 1 variegated plant at edge of carpark and another smaller plant on the soft cliff just in 61.78

Images on inside back cover:

6: Yellow Horned-poppy (*Glaucium flavum*) has begun to spread from the shingle of Tanybwllch beach, into the field directly behind it. © Chloe Griffiths. See page 10.


Images on back cover:


9: Examining flushed rush-grassland, Capel Dyddgen SSSI on the second fieldtrip of the AGM. © Pete Stroh. See page 6.
