



In This Issue

Forthcoming Events	2
Reports of Recent Events	6
Notes & Features	
Water-primrose <i>Ludwigia grandiflora</i> at Sturtmoor Pond, Plaitford <i>Martin Rand</i>	12
An American cudweed in Southampton <i>Tristan Norton</i>	14
Hampshire Carnivorous Plants open days <i>Catherine Chatters</i>	19
An opportunity to visit Micheldever Spoil Heaps SSSI <i>Sue Bell</i>	20
Book Reviews	21
Recording	
Recording particular 1 km squares <i>Tony Mundell</i>	23
Any takers for some IT? <i>Martin Rand</i>	23
Bryophyte report for 2024 <i>John Norton</i>	25
VC11 notes and records <i>Tristan Norton and Martin Rand</i>	32
VC12 records <i>Tony Mundell</i>	45

Dear Flora Group member

The Flora Group committee members hope to see you at some of the events scheduled between March and September 2025, details of which are included in this edition of *Flora News*. Please note that booking is essential for these Flora Group events.

We are very grateful to the committee members who have kindly offered to arrange and lead these meetings. Help with organising and/or leading future Flora Group events would be greatly appreciated. If you are willing to help, or would like to find out about what is involved, please get in touch with any of the current Committee members: Nick Aston, Catherine Chatters, Clive Chatters, Andy Cross, Isobel Girvan, Gareth Knass, Tony Mundell, John Norton, Tristan Norton, Martin Rand, Neil Sanderson and Cathy Wilson.

We welcome your suggestions for future Flora Group activities and encourage you to raise your ideas with the committee.

Would you like to share transport to Flora Group events? Rob Still has set up a WhatsApp group so that people can contact each other and arrange lifts to Flora Group events. If you would like to participate, please send a text to Rob on 07702 737456 saying you wish to join the HFG WhatsApp group.

As always, we would like to encourage more people to contribute to *Flora News* on relevant botanical topics. If you have enjoyed any Flora Group event and would like to write a report, we would be very pleased to receive it. Please send your articles, notes or reports to Catherine Chatters (contact details at the end of this newsletter).

In this edition of *Flora News* we've included information about some additional events which might be of interest to Flora Group members but which have not been arranged by HIWWT's Flora Group. Please see pages 19 & 20 for details.

Edited and produced by Catherine Chatters (Flora Group Secretary) and John Norton

Cover photo: Ivy-leaved Bellflower *Wahlenbergia hederacea*, Church Crookham by Dave Pearson (see VC12 records, p.45).

Forthcoming Events

The events listed here will only take place if they are compatible with relevant Government guidance and Hampshire & Isle of Wight Wildlife Trust (HIWWT) advice regarding COVID-19. You must register with the leader in advance and provide contact details in case of cancellation.

Bring a packed lunch, plenty to drink and suitable footwear to all field meetings. Bring waterproofs if it is likely to be wet.

Sunday 16 March 2025, 10 am–12.30 pm
Tregoulds Copse and Sky's Wood, Valley Park, Ampfield
Leader: Martin Rand
Contact: Martin Rand (martin.rand@hantsplants.net)

This event is contingent on any restrictions and advice concerning the public health situation at the time. Advance booking is essential, with contact details in case of cancellation.

This trip will take in the best Wild Daffodil population in the area, and we shall also aim to record anything else seen flowering at this time.

Sunday 27 April 2025, 2 pm–5 pm

Dummer Copse area, Mottisfont

Leader: Martin Rand

Contact: Martin Rand (martin.rand@hantsplants.net)

This event is contingent on any restrictions and advice concerning the public health situation at the time. Advance booking is essential, with contact details in case of cancellation.

This trip is to look particularly at *Luzula* (Woodrushes): the area supports five species and one hybrid. We shall also note any other interesting species we find; they may include Thin-spiked Wood-sedge *Carex strigosa*, Lily-of-the-valley *Convallaria majalis* and a good range of other woodland plants, many of which have not been recorded for 20 years.

Sunday 11 May 2025, 10 am–4 pm

Hayling Island seafront – coastal grassland plants

Leader: Tristan Norton

Contact: Tristan Norton (vc11recorder@hantsplants.net)

This event is contingent on any restrictions and advice concerning the public health situation at the time. Advance booking is essential, with contact details in case of cancellation.

An all-day meeting to explore the rich coastal grassland of Hayling Island's southern seafront. Commencing at the island's south-western tip, we will explore the rich dune grasslands at Sinah Common, hopefully encountering hundreds of Green-winged Orchids *Anacamptis morio* as well as species including Early Meadow-grass *Poa infirma*, Sea Mouse-ear *Cerastium diffusum*, Little Mouse-ear *Cerastium semidecandrum*, Sheep's-bit *Jasione montana* and Spring Vetch *Vicia lathyroides*. It will probably be too early for Nottingham Catchfly *Silene nutans* but we will have a good look. We will then move eastwards towards Beachlands and should easily find a range of interesting plants including Shepherd's Cress *Teesdalia nudicaulis* and Bulbous Meadow-grass *Poa bulbosa* as well as various spring clovers. If we have time, we will move on a little further east to look for a couple of aliens, Guernsey Pigweed *Amaranthus blitum* and Hairy Finger-grass *Digitaria sanguinalis*.

The terrain is generally flat and undemanding but the day will entail walking across areas of sand and shingle. There is paid parking at Sinah Common and cafés and public toilets along the route.

Saturday 7 June 2025, 10 am–4 pm

Workshop: Getting started with a field guide, Shawford, Winchester

Leader: Martin Rand

Contact: Martin Rand (martin.rand@hantsplants.net)

This event is contingent on any restrictions and advice concerning the public health situation at the time. Advance booking is essential, with contact details in case of cancellation.

This is an outdoor workshop (weather permitting) particularly aimed at beginners and near-beginners wanting to develop their skills in using a handbook to identify plants rigorously. We shall be using the recently published WILDGuide *British and Irish Wild Flowers and Plants: a Pocket Guide* as our 'textbook' and the emphasis will be on the processes (observation and careful following of a procedure) involved in getting a good determination, and on key features of plants' anatomy. If you have acquired the book, bring your own copy; otherwise, you will be able to buy one from the leader. Numbers will be limited, and there will be a charge of £6 for the day (in addition to the cost of the book if you buy one).

We shall spend the morning on Shawford Down examining a limited selection of plants of calcareous and neutral grassland, and the afternoon by the banks of the Itchen Navigation and the adjacent water meadows doing the same for wetland plants. Between the two there will be a chance to 'refuel' at the excellent café at Shawford Station (light lunches, beverages, gooey cakes and pastries, delicious Italian ice cream).

Friday 13 June 2025, 5.30 pm–8 pm

Ipley and Applemore area, New Forest – Heathland orchids and New Forest specialities

Leader: Tristan Norton

Contact: Tristan Norton (vc11recorder@hantsplants.net)

This event is contingent on any restrictions and advice concerning the public health situation at the time. Advance booking is essential, with contact details in case of cancellation.

An evening visit to a couple of sites to look for interesting New Forest species. An area of damp heathland near Applemore has a population of white-flowered Early Marsh-orchids *Dactylorhiza incarnata* subsp. *pulchella* alongside Heath Spotted-orchid *D. maculata*. This site should also yield Meadow Thistle *Cirsium dissectum* as well as an extensive population of Brown Beak-sedge *Rhynchospora fusca*.

Nearby is another area of heath with a small seasonal pond that should yield characteristic species including Pillwort *Pilularia globulifera*, Marsh Speedwell *Veronica scutellata*, Lesser Water-plantain *Baldellia ranunculoides*, Slender Marsh-bedstraw *Galium constrictum*, Chaffweed *Lysimachia minima*, Yellow Centaury *Cicendia filiformis*, Petty Whin *Genista anglica*, Allseed *Radiola linoides* and Lesser Marshwort *Helosciadium inundatum*.

The sites are accessible over generally flat terrain from a free Forestry England car park at Marchwood Inclosure.

Saturday 14 June 2025, 10 am–4 pm

Shortheath Pond and Common

Leader: Tony Mundell

Contact: Tony Mundell (vc12recorder@hantsplants.net)

This event is contingent on any restrictions and advice concerning the public health situation at the time. Advance booking is essential, with contact details in case of cancellation.

I have chosen the date to be just within the coarse fishing closed season, so the car park should not be full of fishermen. This meeting will suit beginners as well as more experienced flower hunters, and I will point out many species as we potter around the pond and the adjacent wet heathland. On the pond margin I am hoping that we will be able to find Narrow-leaved Arrowhead *Sagittaria subulata*, despite what Stace (4th Edition) says about it. It has been known there since 1962 and was recorded in flower in 2024. Have a look at its remarkable British distribution using the splendid Atlas 2020 website at plantatlas2020.org. There are very few plants as rare as this, but of course it is an alien.

Other unusual plants recorded on the pond margins include Hybrid Bulrush *Typha × glauca*, Marsh Cinquefoil *Comarum palustre* and Marsh Willowherb *Epilobium palustre*. After looking at the pond we will move on to the rest of Shortheath Common Site of Special Scientific Interest (SSSI). Many uncommon species have been recorded here in the past and the records need updating. There is an excellent bog that still has Cranberry *Vaccinium oxycoccos*, that was first recorded there by Gilbert White in 1778. I doubt whether the few plants of Trumpets *Sarracenia flava*, which I used to know there until 2002, still persist but it might be worth checking.

Meet in the car park at SU 7750 3690, or What3Words [launch.goofy.hoofs](https://www.what3words.com/launch/goofy.hoofs), or Lat/Long 51.1262° –0.8939°. Bring a packed lunch, something to drink and be aware that parts of the heathland are very boggy.

Monday 16 June 2025, 9 am–5 pm

Malshanger Estate – Arable plant survey

Leader: Tristan Norton

Contact: Tristan Norton (vc11recorder@hantsplants.net)

This event is contingent on any restrictions and advice concerning the public health situation at the time. Advance booking is essential, with contact details in case of cancellation.

A full day's visit to the Malshanger Estate to the west of Basingstoke which promises to be a fantastic botanical experience. The purpose of this visit is to assess the distribution of arable plant species and update a 2013 Plantlife survey. The estate is home to the UK's only population of Large Venus's-looking-glass *Legousia speculum-veneris* as well as many other arable rarities. We will target the most suitable arable margin habitats

and collect valuable data which the estate will use to assess and adapt their management. Further visits may be arranged in 2025.

A slightly earlier start time than usual will allow us to cover as much ground as possible. Walking is on arable field margins so should be generally flat but with some rougher ground in places. The estate owners have provided ample parking, a hall to have lunch if we wish, and toilet facilities.

Saturday 5 July and Sunday 6 July 2025, 10 am–4 pm

Workshop: Grass Identification

Leaders: Andy Cross and Martin Rand

Contact: Martin Rand (martin.rand@hantsplants.net)

This event is contingent on any restrictions and advice concerning the public health situation at the time. Advance booking is essential, with contact details in case of cancellation.

The workshop will be suitable for beginners and improvers wanting to develop their identification skills. Participants will need to commit to both days, numbers will be limited, and there will be a charge of £10 for the weekend.

The first day of the course will be spent at the Wildlife Trust's Testwood Lakes Education Centre, where there will be workshops in the morning and early afternoon looking at grass morphology and a range of grass genera at the bench, followed by a short field session directly out from the Centre. The second day will be spent in the field at a site to be decided with a good range of habitats.

Sunday 17 August 2025, 10 am–3.30 pm

Recording trip: Berry Wood, New Forest

Leader: Martin Rand

Contact: Martin Rand (martin.rand@hantsplants.net)

This event is contingent on any restrictions and advice concerning the public health situation at the time. Advance booking is essential, with contact details in case of cancellation.

This is a trip to record a recently under-recorded monad (1 km square) in a rather remote part of the Forest. There is ancient wood-pasture, forestry plantation, heathland, some small mires and woodland streams. The day entails a 1 km walk-in and an equivalent walk-out, and some rough and wet going.

Friday 5 September 2025, 5.30 pm–8 pm

Cadnam area, New Forest – late summer New Forest specialities

Leader: Tristan Norton

Contact: Tristan Norton (vc11recorder@hantsplants.net)

This event is contingent on any restrictions and advice concerning the public health situation at the time. Advance booking is essential, with contact details in case of cancellation.

Evening visit to the Cadnam area in the northern New Forest to see some of the later-flowering New Forest specialities, notably Small Fleabane *Pulicaria vulgaris* and Pennyroyal *Mentha pulegium*. Both these species are very scarce nationally but thrive in abundance in certain grazed New Forest 'lawns', and we should see plenty of both growing together. Other species to look out for include Trifid Bur-marigold *Bidens tripartita*, Chamomile *Chamaemelum nobile*, Small Water-pepper *Persicaria minor* and Marsh Yellow-cress *Rorippa palustris*. There is an excellent site nearby for the beautiful Ivy-leaved Bellflower *Wahlenbergia hederacea* and we should find Pale Butterwort *Pinguicula lusitanica*.

Reports of Recent Events

Micheldever Spoil Heaps – late visit – Saturday 3 August 2024

A report by Tony Mundell

The Flora Group paid two visits to Micheldever Spoil Heaps in 2024, comprising an early visit on 8 June (as described in the Autumn 2024 edition of *Flora News*) and this later visit in August. The aim of the visits was to compile a full species list of all the vascular plants present on the Site of Special Scientific Interest (SSSI) for the landowner. The SSSI is split into separate halves east and west of the railway and on both dates separate records were collected on each side of the railway. The habitat is unusual as it comprises huge heaps of bare chalk spoil. This spoil arose in the nineteenth century during construction of the railway, when deep cuttings and a tunnel were excavated in 1838-1839.



Flora Group members at Micheldever Spoil Heaps, 3 August 2024. Tony Mundell

Twelve people attended and, as is typical for our meetings, we potted initially in the car park area, finding both Round-leaved Fluellen *Kickxia spuria* and Sharp-leaved Fluellen *Kickxia elatine* in an atypical habitat.

We then set off to the spoil heaps east of the railway. I brought along the completed recording sheets from the June visit and using these Cathy Wilson was able to record just the extra species not already seen in June. My thanks to Cathy for that, as it gave me more time to show many plants to others. All I needed to do was to join in with others shouting out the names of plants, and Cathy then decided what was new and if so she recorded them. By the end of the day this added 45 species east of the railway and 27 on the west side.

One of the first plants noted was Hybrid Birch, *Betula × aurata*. This is a naturally occurring hybrid between Silver Birch and Downy Birch, but tends to be under-recorded, because of the difficulty of identifying it with certainty. In the 'New Flora of the British Isles', Stace has tried to help by quoting an equation called the Atkinson Discriminant Function which adds various terms made from measurements of the leaf shape. Unfortunately, in Edition 3 one term in the equation has an incorrect sign, but it is correct in Editions 1, 2 and 4.

The Spring Cinquefoil *Potentilla verna* that still had a few flowers on the earlier June meeting was found to be widespread wherever there was bare exposed chalk, but of course now without any flowers. Most of the extra species added east of the railway were common species of chalk grassland, but they did include Vervain *Verbena*

officinalis, Blue Fleabane *Erigeron acris*, Small Scabious *Scabiosa columbaria*, Bristly Oxtongue *Helminthotheca echioides* and Dropwort *Filipendula vulgaris*.

A plant that I particularly wanted to show people was Cut-leaved Germander *Teucrium botrys*, and we found a dozen plants on the steep side of a spoil heap, though many more were found in flower later when we visited the part of the SSSI west of the railway. Cut-leaved Germander is especially protected in law as a Schedule 8 species under the Wildlife and Countryside Act, but you will no longer find it in Red Data lists as it is now thought to be probably a neophyte (alien species) and plants have to be considered native to be included on Red Lists.

We searched hard for Moonwort *Botrychium lunaria*, Fine-leaved Sandwort *Sabulina tenuifolia* and Mat-grass Fescue *Vulpia unilateralis* that had been recorded here in the past, but their sites had become overgrown with Birch scrub.

We returned to the car park for lunch and I collected some pieces of a plant that was either Thyme-leaved Sandwort *Arenaria serpyllifolia* or Slender Sandwort *Arenaria leptoclados*. Later using my microscope at home, it proved to be the latter as the seed capsules measured only 2.6×1.4 mm and the seeds were only 0.48 mm in diameter.

After lunch we set off for the SSSI part west of the railway, passing en-route the edge of an arable field. Sharp-leaved Fluellen was quite plentiful in the crop edge but it was a surprise to also find in the same place several quite large flowering plants of Reversed Clover *Trifolium resupinatum* with its 'upside-down' flowers. Presumably it had arrived as a seed contaminant in the sown crop.

Again, we recorded extra species not seen on the west side during the June visit, including Squinancywort *Asperula cynanchica*, Bristly Oxtongue and Dropwort. Here my main aim was to show people Red Hemp-nettle *Galeopsis angustifolia* in flower. Several of us scattered to search and flowering plants were found in three places but they were all ridiculously tiny at only around 1 cm or 2 cm tall. Nevertheless, it was great to find it as it is rated as nationally Critically Endangered. West of the railway we saw many plants of Cut-leaved Germander, though most of the flowers were going over.

After collecting records of many species, we re-visited the Deadly Nightshade plants that had been found in flower during the earlier June visit and they were now in fruit with large black berries.



Top to bottom: Cut-leaved Germander *Teucrium botrys*; Reversed Clover *Trifolium resupinatum*; tiny plant of Red Hemp-nettle *Galeopsis angustifolia*. Tony Mundell

Apart from all these vascular plants, we were lucky to have Neil Sanderson with us, who concentrated on the lichens. He was not disappointed, as can be seen in more detail in his 'Hampshire Lichen Report 2023-24' published in the October 2024 issue of *Flora News*. In scrub on old Hazel bushes east of the railway he found *Arthonia graphidicola* and *Anisomeridium viridescens*, both new to North Hampshire. He also re-found *Cladonia symphyocarpa* doing well in several spots at its only Hampshire site. West of the railway he found *Orcularia insperata* growing on a Sallow twig, again new to North Hampshire.



Berries of Deadly Nightshade *Atropa belladonna*. Tony Mundell

Flora Group / BSBI Exhibition Meeting – Saturday 7 December 2024

A report by Catherine Chatters

Twenty-one botanists braved the elements to attend our traditional winter get-together at Testwood Lakes Education Centre on the edge of Totton. The strong winds and weather warnings resulted in fewer attendees than usual, as some people who had originally intended to come decided to send their apologies. Despite the lower number of people, the event was very enjoyable and a worthwhile opportunity to chat to Flora Group members, meet Sam Thomas (BSBI England Officer), discuss botanical discoveries, examine herbarium specimens, purchase books and view publications.

John Poland came with a wide selection of winter twigs to test our identification skills and Martin Rand brought along a variety of hand lenses for people to purchase. Eric Clement displayed his herbarium sheets of alien plants from South Hampshire, the Isle of Wight and beyond.

Eric was particularly impressed by the 'TOMLOV IPS Digital Microscope' exhibited by Tristan Norton. The microscope is the DM601 model which cost Tristan around £120 and he says it 'has proven to be much more helpful than my many and varied attempts at trying photography through my binocular microscope.'

George Hounsome, of Woking in Surrey, had collected approximately 200 samples of British vascular plant seeds and had given his collection to Eric who brought along a few of the samples to show us. Eric displayed them with a note explaining that identification of seeds is difficult as there is no book on the subject that covers



Left: Eric Clement with his herbarium specimen of *Saururus cernuus* (Lizard's-tail); right: Tristan Norton's TOMLOV digital microscope. Catherine Chatters

a good selection of British plants and seed collections are very rare. Eric considers seed collecting is 'a good way to spend autumnal days, instead of venturing into the fungal world. Good hunting!'



Part of Eric Clement's collection of 200 seed samples from George Hounsome. John Norton

Tony Mundell displayed his herbarium specimens which are to be deposited in the Hampshire Cultural Trust's Herbarium in Winchester. Tony also brought along a folder of information to encourage people to undertake botanical surveys in poorly-recorded monads (1 km squares) and a folder of records relating to the Threatened Plants Project.

The meeting was an opportunity for people to look at the nature diaries and albums of pressed plant specimens made by the late Mrs Beryl Faulkner (1924 – 2024) and an opportunity to remind anyone wishing to make herbarium sheets, to ensure that they use the correct type of tape (rather than Sellotape).

Martin Rand raised funds for Flora Group from his stock of second-hand books, some of which came from the library of the late Barry Goater; thanks to everyone who made donations, totalling £45.

After enjoying a bring-and-share lunch, Cathy Wilson chaired our AGM, during which Nick Aston was elected to the committee and some useful matters were raised and discussed. We look forward to welcoming Nick to his first committee meeting.

Following the AGM, we heard three interesting presentations, the first of which was given by Clive Chatters who focused on the different ways that habitats respond to change. The first example he gave was from the Test Valley where new 'early-stage succession' habitats are emerging in a landscape that is changing very rapidly in some areas, due to river restoration by Wessex Rivers Trust. He then referred to the South Holt estate where former arable fields are 'tumbling down' to pasture; on skeletal soils developed over flint scree and chalk there are huge opportunities for colonisation but on richer soils the ruderals become dominant and the sward closes over, reducing the niches for a wider range of plants to colonise.



Mike Rowe and Cathy Wilson examining herbarium specimens Catherine Chatters

The remainder of Clive's presentation was based on examples from the New Forest where grazing, fire and ground disturbance are the driving forces of diversity and where 'dynamism' plays a vital role.

Clive showed a photograph of a river north of Fletcher's Thorns which had been dug as a 'trapezoidal drain' by the railway company in the nineteenth century and which was restored to its original course several years ago. Following the restoration work, the Oak plantation had died and, in places, a swamp had formed supporting an extensive population of Lesser Water-plantain *Baldellia ranunculoides*.

Beaulieu Heath was Clive's next example from the New Forest. At this WWII airfield site, calcium has leached into the surrounding acidic soils from the concrete of the former runways and other wartime structures. Moonwort *Botrychium lunaria* is a 'fast colonist' in suitable habitats which are burnt, grazed and grossly disturbed; it colonised Beaulieu Heath within a decade of the RAF moving out of the site and the concrete being removed. Tony Mundell commented that this species is 'in dire straits in North Hampshire'.

The brightly-coloured and distinctive Golden-eye lichen *Teloschistes chrysophthalmus* which grows on twigs at Beaulieu Heath is another rapid colonist if the conditions are right. It characteristically appears, thrives and then disappears and seems to be colonising new areas in response to climate change.

Clive suggested that as the climate becomes warmer and wetter and as frosts become fewer and less severe, the distribution of some species which we formerly regarded as rare might be increasing. Robin Walls noted that *Teloschistes chrysophthalmus* has now been recorded in Dorset.

Whilst assisting the New Forest Non-Native Plants Project with field surveys near Minstead during April 2024, Clive discovered Mouse-tail Plant *Arisarum proboscideum* in abundance and spreading along ditches in the vicinity of Furzey Gardens. He considers this non-native plant has the potential to become invasive and encouraged people to make a record if they see it growing in the wild.

Our next speaker was Tristan Norton whose presentation was rather intriguingly titled 'VC11 Recorder: An Unexpected Journey'. The reason for this title soon became clear as Tristan recounted how Frodo had been guided by Gandalf, the tall, bearded wizard, although he'd been baffled by Gandalf's confidence in him to complete his journey. Frodo had met 'elevated betters' along the way, so he'd appreciated Gandalf's support and the help given by Bilbo Baggins. Frodo's journey had only been possible with the continued support from lots of people, especially Gandalf (Martin Rand) and Bilbo Baggins (Tony Mundell). Tristan thanked people for the number of records they had submitted and the regularity of their recording; he expressed particular thanks to Bob Wardell, Mike Rowe, Andrew Powling, Eric Clement and Anna Stewart. Nearly 27,000 records have been added to the DDb for VC11. Tony Mundell said he was 'gobsmacked' by the quantity of records submitted in VC11 as the number of records he's received for VC12 has plummeted since 2020.

Tristan then focused on a selection of plants that he had recorded during the past year. Whilst driving through Southampton he had spotted an American cudweed *Gamochaeta* sp. As you will see from Tristan's article on page 14 of this edition of *Flora News*, the taxonomy of this genus is very complex, so all *Gamochaeta* records on the DDb now need to be treated with caution.

The next slide was of Argentine Fleabane *Erigeron bonariensis* which Tristan had been determined to find in Havant. He admitted he had become 'fixated' on finding it one day and eventually discovered it growing where it was 'fairly frequent in a very restricted area' but he's concerned that its habitat in Havant is under threat due to frequent spraying and strimming.

Two *Euphorbia* species were the focus of the following slide. The first Hampshire record of Prostrate Sandmat *Euphorbia prostrata* had been submitted by Bob Wardell who had found it in Havant; Tristan then discovered it growing at Brambridge Garden Centre. Spotted Spurge *Euphorbia maculata* was recorded on Hayling Island.

Tristan had travelled to Essex for a wedding in Bradfield (north-east of Colchester) where he found Panicked Willowherb *Epilobium brachycarpum* growing on a traffic island next to a bus stop. This was a new record outside its core range in Colchester. Panicked Willowherb is native to North America and can grow up to two metres tall; it is already common in Norwich and Tristan predicts it will spread to Hampshire.

A few years ago Tony Mundell had found Orange Foxtail *Alopecurus aequalis* at Bordon but it had been buried under a metre of sand when a WWII bomb was blown up. Tony was therefore delighted to hear that Tristan had found it growing here in 2024.

When Tristan visited the Grass-poly *Lythrum hyssopifolium* site at Long Valley he discovered a single plant which he thinks is Broad-leaved Cudweed *Filago pyramidata*. Phil Wilson and Tim Rich have looked at the photographs that Tristan took and agree that it probably is *F. pyramidata* due to its pyramidal-shaped capitula but Tristan didn't have time to return to the site to check the number of bisexual florets which is the distinguishing characteristic.

During his Easter holiday Tristan went to El Hierro, one of the Western Canary Islands, where he was pleased to find Narrow-leaved Cudweed *Filago gallica* which is now extinct in the UK. He also found a species of Weasel's-snout *Misopates salvegensis* which has a very restricted distribution.

Brian Laney had travelled from Northamptonshire where he shares responsibilities as the Joint VC Recorder with Alison Freeman. Brian shared photographs of some interesting botanical finds including Brittle Bladder-fern *Cystopteris fragilis*, Black Poplar *Populus nigra* growing near the Leicestershire border and Long-stalked Crane's-bill *Geranium columbinum* which was found within a clearing in Wakerley Woods.

Brian had discovered five plants of Heath Cudweed *Omalotheca sylvatica* growing in a woodland on an area of bare sand which had not been covered with wood chips resulting from forestry operations; this species had also been found where a new road is being constructed near Northampton.

Brian showed a photograph of Plot's Elm *Ulmus plotii* growing near Laxton and explained that a researcher is studying old photographs of Plot's Elms and then visiting the locations to find out whether the elms survive.

Knowing that there were historical records of Fine-leaved Sandwort *Sabulina tenuifolia* Brian had visited a fishery where he was delighted to find 200–300 plants of this species growing within the otter-proof fence line.

Brian considers that 'urban botanising can be fun at times.' In response to Paul Stanley's encouragement to check areas of waste ground, Brian had recorded Canterbury-bells *Campanula medium*. He had found a naturalised population of Italian Everlastingflower *Helichrysum italicum* (popularly known as Curry Plant) growing on the edge of a kerb in Daventry. Four-leaved Allseed *Polycarpon tetraphyllum* had been recorded outside Natural England's offices in Peterborough and has since been discovered in other locations, including a site at Towcester.

Thank you to everyone who made the event such a success and special thanks to Pat Mundell and Clare Rand who served refreshments to us throughout the day.

Notes and Features

Water-primrose *Ludwigia grandiflora* at Sturtmoor Pond, Plaitford

A note by Martin Rand

Water-primroses are a complex of closely related and similar species from South America. They are very beautiful flowers, and they have been sold as pond ornamentals; unfortunately, they are also one of the most aggressively invasive water plants on earth. *Ludwigia grandiflora* and *L. peploides* are 'species of special concern' so are subject to legislative measures (including a ban on sale) aimed at preventing their spread into the countryside. The rate at which they can establish and spread from a fragment of introduced material is phenomenal, and they can rapidly suppress valued native plant communities. On the near Continent they have proved their ability to choke waterways, wreck fisheries and prevent navigation.

In Hampshire we have previously had two major infestations of *Ludwigia grandiflora*, in ponds on the golf course at Barton on Sea and on Breamore Marsh (a Site of Special Scientific Interest of national importance for its assemblage of rare pond and wetland plants); a couple of other introductions into small ponds have been dealt with successfully but, despite attempts at eradication, it has not so far been possible to eliminate those two populations entirely. Much effort and money has been spent on the population at Breamore Marsh to get it to a very low level of infestation, but any break in the annual monitoring and management could lead to plants recolonising. Ponds on Breamore Marsh have outflows to the River Avon a short distance away, and an escape to the river would likely prove devastating.

During autumn 2024, ecologist and Hampshire Flora Group member Pete Flood came upon a large stand of *Ludwigia grandiflora* at Sturtmoor Pond on Plaitford Common on the Hampshire/Wiltshire boundary, which is one of the National Trust commons on the north-eastern fringes of the New Forest. His photographs showed a dense stand of flowering plants; it is impossible to say how long it has been established here but, given its aggressive colonising ability, it need not have been many years. In the next couple of days Tristan Norton and I independently made visits to assess the full extent of the population (Figure 1). Every part of the pond margins proved to be infested, along with shallower parts of the open water. It had also backed up a short way into feeder streams, and more concerningly had travelled over 300 metres down the outflow stream almost to



Water-primrose *Ludwigia grandiflora* at Sturtmoor Pond, Plaitford Common. Pete Flood

the edge of the common. From here the stream flows through a complex series of private properties to reach the River Blackwater in just over 2 kilometres. The River Blackwater enters the River Test a short way above the nature reserves of the Lower Test Valley.

The Environment Agency and the National Trust were quickly notified and were provided with a map and GIS data from the records collected by the three of us (Figure 1). With the consent of Natural England, the former have carried out further surveys (with help from the Animal & Plant Health Agency) on private land in the area (none found) and made an initial stopgap intervention with herbicide in the hopes of limiting any expansion during the past autumn. In future years, the National Trust will take over the management; two or three applications of herbicide a year have been proposed. Fortunately, the pond does not have the floristic richness of Breamore and the main plant of conservation concern in the immediate vicinity is Small Water-pepper *Persicaria minor*, which is widespread and often abundant on the Forest and a good coloniser. However, success with herbicide is not guaranteed and depends heavily on the weather at the time. Sturtmoor Pond is a large and complex site, and this will be even more challenging than Breamore. The Environment Agency is looking into carrying out or commissioning downstream surveys beyond the common to ascertain whether it has already travelled under the fence and has confirmed that the Animal and Plant Health Agency propose to return during summer 2025 to carry out a further survey.

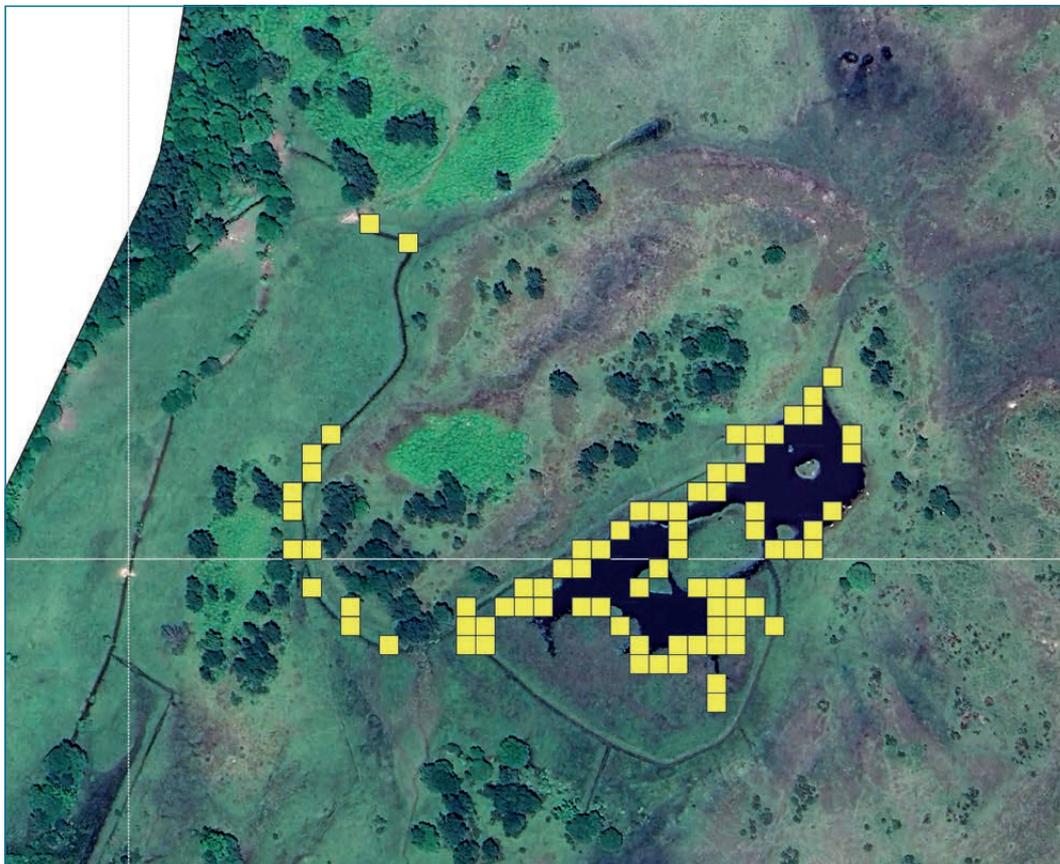


Figure 1. Distribution of Water-primrose *Ludwigia grandiflora* at Sturtmoor Pond mapped by 10-metre squares.

An American cudweed in Southampton

An article by Tristan Norton

A version of this article was also published in *BSBI News*, no. 158 (Spring 2025).

Working condensed hours has many benefits, one of which is that the reward for a slightly longer working day is that every fortnight I get a whole Monday to myself (with children at school) to pursue plant hunting. At the tail-end of the traditional flowering season I have tended to switch my attention to the urban environment: as a fan of plant hunting in arable habitats, I find a pleasing analogy in spontaneous street flora and the chance of unusual discoveries. On Monday 23 September 2024 I decided to head down the road to Southampton.

I spent an hour or so exploring the old city walls and surrounding streets and making use of the excellent BSBI recording app, I was soon busy recording the almost ubiquitous Jersey Cudweed *Laphangium luteoalbum* and Water Bent *Polypogon viridis*, the well-established Shaggy Soldier *Galinsoga quadriradiata* and the architectural Pale Galingale *Cyperus eragrostis* alongside various native species.

Upon heading east to the borough of Woolston, I was passing across a section of flyover and, glancing to my left at some vegetation growing along the kerb, my eye was drawn to several plants that looked like Heath Cudweed *Omalotheca sylvestris*, a species I'd seen plenty of in Aberdeenshire earlier in the summer. Finding my way back on foot, I was relieved to find that I hadn't been hallucinating, and saw several spikes of what was clearly an American cudweed (*Gamochaeta* species) growing from a drain. I made a tentative identification as *Gamochaeta purpurea*, the default 'American cudweed' thought to occur in Britain. This discovery has taken me well and truly down the proverbial rabbit hole of *Gamochaeta* taxonomy.

That the taxonomic situation of American spicate cudweeds is complicated has been recognised for many decades. Drury (1971) states that they 'are some of the most perplexing of Compositae to classify and name' and 'the nomenclature is very tangled'. Freire et al. (2024) describe the situation as 'taxonomic chaos'. I would heartily agree, and one of the challenges of writing this article has been to provide a narrative that doesn't lead the reader into a state of confusion as deep as mine. Thankfully, much work has been undertaken on this group in recent decades by botanists in the Americas and the spread of these species to all corners of the globe has attracted attention from botanists elsewhere.

Taxonomy and morphology of spicate cudweeds

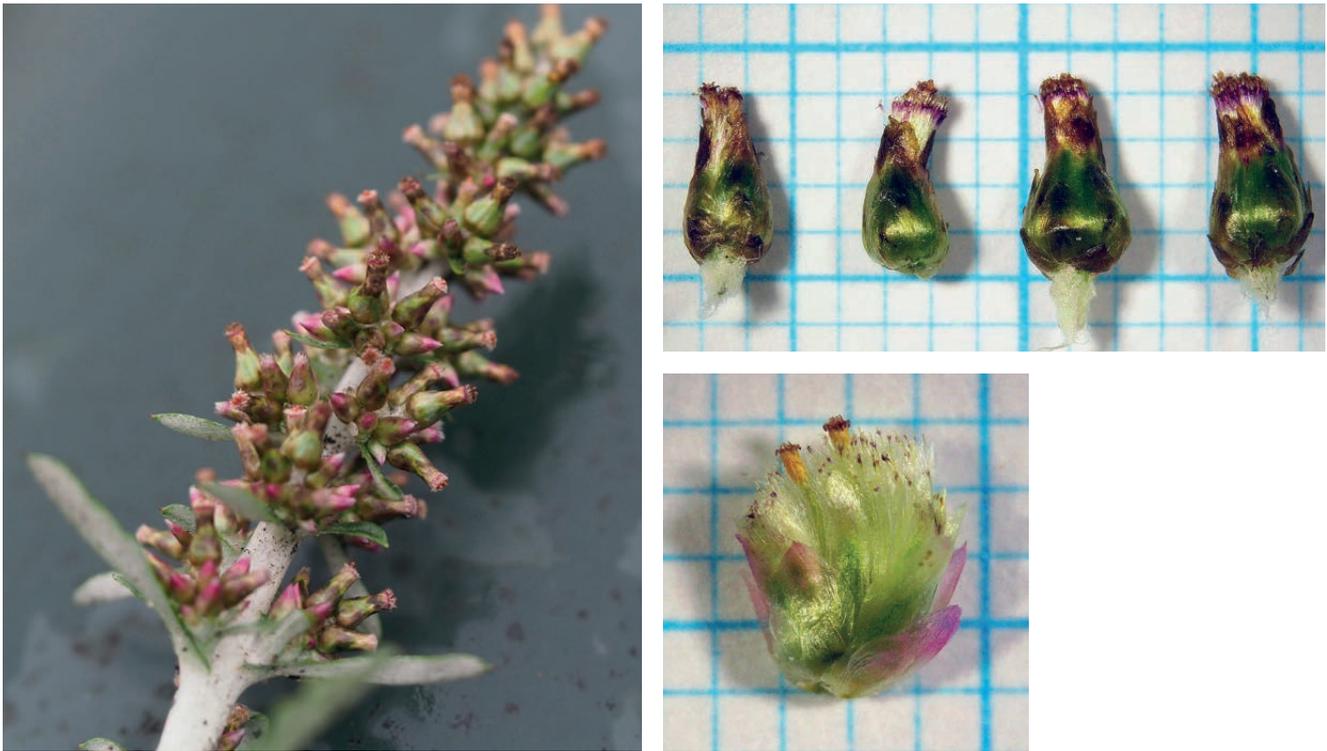
Plants in the genus *Gamochaeta* are known as the spicate cudweeds on account of their often tall, often erect flowering spikes. Many of the features critical for species discrimination require detailed microscopy. Recent treatments of the genus (Freire et al., 2021; 2024) have used between 24 and 33 morphological characteristics.

The latest taxonomic revision lands with 53 species (Freire et al., 2024), centred on South America and with some species in Central and North America. In their natural range they occupy various ecological zones, including high altitude rocks, lowland grasslands, woodland edges, deserts, and wetlands. Where adventive, they tend to be associated with urban/suburban situations (Verloove et al., 2023; Lucardi et al., 2020).

The inflorescence comprises lots of small sessile clusters of individual flowering heads interspersed with a series of leaf-like bracts. This can be a dense continuous spike, an interrupted spike, terminal clusters, or dense clusters on



Gamochaeta sp. Southampton, 23 September 2024. Tristan Norton



***Gamochaeta* sp., Southampton, September 2024. Left inflorescence; right: involucres (scale 1 mm). Tristan Norton**

panicles (Freire et al., 2016; Freire et al., 2024). The individual flowering parts comprise a bell-shaped involucre with layers of semi-translucent phyllaries.

The leaves of many species show an obvious contrast in the colour and texture of the upper and lower surfaces. The species discussed in this article – those within the broad definition of *Gamochaeta purpurea* – each have bicolorous leaves with a densely woolly lower surface and a more or less glabrous and plain green upper surface. Plants have a basal rosette which may persist during flowering, or may not.

The Southampton plants show a persistent basal rosette of broadly obovate leaves (reminiscent of a *Centaureum* species or Yellow-wort *Blackstonia perfoliata*) with distinctly bicoloured upper and lower surfaces. The erect flowering spike on the largest plant was c.30 cm and the stem is densely white-woolly. A sample of involucres measured between 3 and 4 mm. The inner and outer phyllaries exhibit acute apices.

***Gamochaeta* species in Britain and Ireland**

American spicate cudweeds are very rare in Britain and have not yet been recorded in Ireland. There are 26 records of *Gamochaeta* species on the BSBI distribution database (DDb) (BSBI, 2024) between 1913 to 2023 and with records from as far north as Selkirkshire (v.c.79) but tending to concentrate in central and southern England. The British records are exclusively recorded as *G. purpurea* although include the synonyms *Gamochaeta pensylvanica* and *Gnaphalium pensylvanicum*, all under the common name American Cudweed. There is a record of one other American cudweed species, *Gnaphalium coarctatum*, from Guernsey in 2016. This taxon is now placed within *Gamochaeta* as *G. coarctata* although its validity as a distinct taxon is questioned (see below).

Is it *Gamochaeta purpurea*?

Is the Southampton plant *Gamochaeta purpurea*? Perhaps the question when faced with one of these plants should be: is a spicate cudweed found in Britain even most likely to be *G. purpurea*? *Gamochaeta purpurea* is a handy catch-all taxon within which British and Irish botanists could comfortably place any *Gamochaeta* species. This was my own fallback position: it must be *purpurea* because all the DDb records are of that species. The taxonomic situation is however much more complex, and I now acknowledge that it would be presumptuous to assume that *purpurea* is the most likely species to occur in Britain and Ireland, or that all the records attributed to *purpurea* on the BSBI database are even this taxon.

There is considerable evidence from work in the Americas that points to problems with assuming that British plants or those recorded elsewhere are *purpurea* (e.g. Alford, 2012), or even that many North American plants assumed to be *purpurea* are that species at all (or more accurately, that they are *purpurea* s.s.). Treatments of 'purple cudweeds' from the USA have always taken varying positions; some including the distinct *G. pennsylvanica* within a broad definition of *Gamochaeta purpurea*/*Gnaphalium purpureum*, and others taking a narrower position (Nesom and Pruski, 2005). Indeed, Nesom and Pruski (2005) state that 'names in *Gamochaeta* have often been misapplied, and the overall distribution of *G. purpurea* will be understood only after many identifications are reassessed' and that usage of this name in places outside its native USA range 'may not be consistent with the North American usage', i.e. may refer to other taxa, known or as yet undescribed. There is nothing straightforward about *Gamochaeta* identification.

In the last couple of decades, new taxa previously recorded in their native range under *purpurea* s.l., have been described from the United States: *G. argyrinea*, *G. chionesthes* (Nesom, 2004a) and *G. impatiens* (Nesom, 2022) and there are other taxa which have also been consistently confused with *purpurea*, e.g. *G. stagnalis*, *G. ustulata*, *G. coarctata*, *G. sphacelata*. Interestingly, Nesom (2004a; 2004b) states that in its native USA, his impression is that *purpurea* s.s. has become scarcer in recent decades and, at least in the eastern states, is 'the least weedy' species and more likely to be found in near-natural locations than other similar taxa. Do these observations infer that *purpurea* s.s. is less likely as a candidate adventive on British streets? Are 'our' plants something else masquerading as *purpurea*?

A recent genetic investigation carried out chiefly on material from North America (Alford, Cameron and Carter, 2022) affirms the delineation of various North American species which had previously been identified using only morphometric analysis and which had often been included in *purpurea* s.l.: there are at least eight genetically distinct species in the USA, five of which group within the *purpurea* type. Freire et al. (2024) group four species in this *purpurea* complex and clearly state that the taxonomy is troubled by 'high phenotypical variability of the individual species, coupled with their great similarity'.

Plants in The Netherlands and Belgium which, as in Britain, may have been lumped as *G. purpurea* s.l. or even as another similar species, *G. americana*, are now described as *G. coarctata* (Verloove, Dirkse and Meeus, 2023) which itself had previously been recorded as *G. spicata* (Pruski and Nesom, 2004). Are some or all of the British *purpurea* actually *coarctata*? Before we get too comfortable, recent morphological analysis by Freire et al. (2021) and confirmed (with a sense of surprise) by Nesom (2022) concludes that *coarctata* and *americana* are indistinguishable and should be considered as a single taxon, *G. americana*. Confusingly, *americana* is not native to the USA. In addition, Nesom (2022) found that some plants thought to be *coarctata* are in fact a novel species, *G. impatiens*. Freire et al. (2024) place *impatiens* in *americana* and do not include *coarctata* at all.

To try and summarise this situation: the taxon *Gamochaeta purpurea* has clearly been used, at different times and in different locations, as a catch-all to describe various similar spicate cudweeds, some of which have themselves since been shown to either be novel species or not valid as distinct entities. The taxonomic comfort blanket of *purpurea* s.l. looks very attractive.

My experience with these plants has led me to the following conclusion: a spicate cudweed species found in Britain or Ireland is – potentially – just as likely to be any one of numerous other species than it is to be *G. purpurea* s.s. There has clearly been a tendency – here and elsewhere – to rely on the generic *purpurea* 'American Cudweed' as a handy umbrella category within which to place a specimen of *Gamochaeta*. Given the complexities of spicate cudweed taxonomy it is perhaps understandable that all records of *Gamochaeta* in Britain are *purpurea*; but is it likely? The Southampton plants could well be *purpurea* (but we would need to be sure of our ground to conclude *purpurea* s.s.) or the taxon recorded as *G. coarctata* which should now be referred to as *G. americana*. They could also be any one of numerous other species exhibiting spicate inflorescences and strongly bicoloured leaves that have been placed, often mistakenly it seems, in the *purpurea* box. They could be something else, as yet undescribed.

What is the solution here? Perhaps the most honest yet unsatisfactory answer is to use *Gamochaeta purpurea* s.l. or even *G. americana* to describe any spicate cudweed found in Britain and Ireland, yet acknowledging that this could include any one of a number of North, Central and South American species. It is a brave botanist who dares to make a definitive identification of a 'purple cudweed' on British and Irish streets without some serious microscopy work.

Specific identification in the genus *Gamochaeta* is – as I hope this article shows – extremely complex and even the most experienced botanists worldwide, intimately familiar with their collected material and plants in the field, repeatedly refer to the pitfalls of definitive identification. The regular and ongoing revisions of *Gamochaeta* taxonomy speak to the difficulties with this genus, and we can be sure that further revisions will follow as continuing attention is paid to this fascinating group, including by British and Irish botanists.

Postscript

On 28 September 2024, five days after my initial discovery of those few plants, I decided to spend a few hours exploring the surrounding area. Approximately 150 metres south of the original find I stumbled quite by accident on the *Gamochaeta* motherlode. Here, growing from brick paving outside a modern industrial-type building housing an aviation museum, were hundreds of plants. I've subsequently found a few more examples on the other side of this building but none more widely. It seems that rather than a chance and fleeting single location, there is a persistent population of *Gamochaeta* in this particular area of Southampton. This will hopefully allow further study to determine the exact taxonomy and will allow other botanists to gain experience in this most tricky of plant genera.

My own investigations continue, and I'm currently leaning towards these plants being either (ironically) *G. purpurea* s.s. or *G. chionesthes*.



Gamochaeta sp. leaf rosettes, Southampton, 28 September 2024. Tristan Norton

References

- Alford, M.H. (2012). New records of *Gamochaeta* (Asteraceae) in the Hawaiian archipelago. Records of the Hawaii Biological Survey for 2011. *Bishop Museum Occasional Papers* 113: 1–6.
- Alford, M.H., Cameron, K. & Carter, R. (2022). The utility of DNA markers for delimiting and identifying species of *Gamochaeta* (Compositae) in the Eastern United States. *Rhodora* 124. 10.3119/22-06.
- Drury D.G. (1971). The American spicate cudweeds adventive to New Zealand (*Gnaphalium* Section *Gamochaeta*-Compositae). *New Zealand J. Bot.* 9: 157–185.

- Freire, S., Salomon, L., Bayón, N., Baeza, C., Muñoz Schick, M. & Migoya, M. (2016). Taxonomic revision of the genus *Gamochoaeta* Wedd. (Gnaphalieae, Asteraceae) in Chile. *Gayana Botánica* 73: 292–345.
- Freire, S., Grossi, M., Iharlegui, L., Abarca, C., Monti, C., Bayón, N. (2021). Taxonomic Identity of *Gamochoaeta americana* and *Gamochoaeta coarctata* (Gnaphalieae, Asteraceae). *Phytotaxa* 523: 273–283.
- Freire, S.E., Grossi, M.A., Bayon, N.D., Monti, C., Iharlegui, L. & Migoya, M.A. (2024). Taxonomic revision and morphometric analysis of *Gamochoaeta* (Asteraceae, Gnaphalieae). *Annals of the Missouri Botanical Garden* Vol. 109.
- Gamochoaeta purpurea* (L.) Cabrera, in: BSBI Online Plant Atlas 2020, eds P.A. Stroh, T. A. Humphrey, R.J. Burkmar, O.L. Pescott, D.B. Roy, & K.J. Walker. plantatlas2020.org/atlas/2cd4p9h.7mm24p
- Hoste I. & Verloove F. (2010). Mediterranean container plants and their stowaways: a potential source of invasive plant species. In: Segers H, Branquart E (eds), Science Facing Aliens, Proceedings of a Scientific Meeting on invasive alien species held in Brussels, May 11th, 2009: 39–44. Scientific Biodiversity Platform, Brussels.
- Hoste I. (2013). Ornamentals and invasive plants: if you choose one you get the other as well. In: Anonymous, Mini symposium on aliens and invasive species: 1–6. National Botanic Garden of Belgium, Bouchout Castle, December 2, 2011.
- Lucardi, R.D., Cunard, C.E., Hughes, S.C., Burgess, K.S., Reed, J.N., Whitehurst, L.E., Worthy, S.J. and Marsico, T.D. (2020). An initial industrial flora: A framework for botanical research in cooperation with industry for biodiversity conservation. *Plos One* doi.org/10.1371/journal.pone.0230729
- Nesom, G.L. (2004a). New species of *Gamochoaeta* (Asteraceae: Gnaphalieae) from the eastern United States and comments on similar species. *Sida* 21: 717–741.
- Nesom, G.L. (2004b). New distribution records for *Gamochoaeta* (Asteraceae: Gnaphalieae) in the United States. *Sida* 21: 1175–1185.
- Nesom, G. & Pruski, J. (2005). (1704) Proposal to Conserve the Name *Gnaphalium purpureum* (Compositae: Gnaphalieae) with a Conserved Type. *Taxon* 54: 1103.
- Nesom, G.L. (2022). *Gamochoaeta impatiens*, sp. nov. (Asteraceae: Gnaphalieae), the USA adventive previously identified as *G. coarctata*. *Phytoneuron* 35: 1–48.
- Pruski, J.F. & Nesom, G.L. (2004). *Gamochoaeta coarctata*, the correct name for *Gamochoaeta spicata* (Compositae: Gnaphalieae). *Sida* 21: 711–715.
- Verloove, F., Dirkse, G.M. & Meeus, S. (2023). American cudweeds (*Gamochoaeta*; *Gnaphalium* s.l., Asteraceae) in Belgium and the Netherlands. *Gorteria* 45: 36–51.

Hampshire Carnivorous Plants open days

A note by Catherine Chatters

Through my work for Hampshire & Isle of Wight Wildlife Trust as the New Forest Non-Native Plants Officer, I've been delighted to meet Matthew Soper of Hampshire Carnivorous Plants (based at Stroudwood Nursery, Stroudwood Lane, Lower Upham, Southampton, SO3 1HG) and am sure that other Flora Group members would be fascinated to visit this superb nursery.

Since Matthew founded Hampshire Carnivorous Plants in 1995 it's now the largest specialist carnivorous plant nursery in the UK. As stated on his website www.hantsflytrap.com the nursery is 'run with the same passion and enthusiasm that first inspired Matthew to grow these fascinating plants after watching a natural history programme hosted by David Attenborough in the 1970s and further sparked by a visit to Kew Gardens'.

Matthew is a highly respected grower and has provided plants for Kew Gardens, the Eden Project and Oxford and Cambridge botanic gardens. During his 25 years of exhibiting at flower shows Matthew has been awarded over 120 gold medals by the Royal Horticultural Society, including 23 consecutive gold medals at the Chelsea Flower Show. Plants from his nursery have featured in the James Bond movie *No Time to Die*, on BBC *Gardeners' World* and in several TV documentaries including *The Private Life of Plants* and *Life on Earth*.

As well as being an expert horticulturist, Matthew is concerned about the conservation of carnivorous plants and explained to me how his collection is a 'living ark' of species which are under threat in their native habitats.

A visit to the nursery is an ideal opportunity to see the largest collection of carnivorous plants in the UK, including some of our native species and their hybrids.



A display of pitcher plants at Hampshire Carnivorous Plants, 15 July 2024. Catherine Chatters

To enable people to enjoy the stunning displays of *Sarracenia*, *Nepenthes*, *Pinguicula*, *Drosera*, *Dionaea* etc Matthew has arranged a series of Open Weekends for 2025. The events (held from 10 am to 4 pm each day) are free of charge, there is no need to book and refreshments are available. Full details of all the Open Weekends can be found on the website at www.hantsflytrap.com but here is a selection of some of the dates:

24, 25 and 26 May 2025 (3-day event) – Matthew considers this is the perfect time of year to see many of the plants at their best, especially *Sarracenia*. There will be a huge range of available species and hybrids including some of the more unusual forms.

21 and 22 June 2025 – the plants will all be looking great at this time of the year and the *Sarracenia* will have coloured up a bit more; the bog gardens will be at their best.

12 and 13 July 2025 – *Sarracenia flava* and most of the hybrids will have ‘coloured up nicely’ and the *Nepenthes* will be ‘looking great at this time of the year too’.

2 and 3 August 2025 – there will be plenty of plants to see.

13 and 14 September 2024 – the bog garden plants are usually at their best at this time of the year.

4 and 5 October 2025 – *Sarracenia leucophylla* and hybrids with this species will be ‘at their absolute best’.

Please note that these Open Weekends are not part of the Flora Group’s programme of events.

An opportunity to visit Micheldever Spoil Heaps SSSI

A note by Sue Bell

The ‘Railway 200’ celebrations at Micheldever Station on Saturday 10 May 2025 will include a visit to the Spoil Heaps as, without the engineering work involved in the construction of the railway, we would not have this curious Site of Special Scientific Interest (SSSI).

At 3.20 pm on Saturday 10 May 2025 transport will depart from the forecourt of Micheldever railway station (SO21 3AP) to make the short journey to the Micheldever Spoil Heaps. The visit is by kind permission of the landowners who will lead the walk. The walk will be half a mile long, over undulating terrain with some steep slopes which are liable to be slippery after rain. Discussion during the visit will be of interest to railway historians, lepidopterists, archaeologists and geologists but especially to botanists who recognise the significance of this SSSI for its rare flora.

You are most welcome to join this guided walk; participation is free but donations to the cost of transport will be most welcome. Numbers must be limited, therefore booking is essential. Please book by contacting Sue Bell via email at suebellogo6@gmail.com.

Please note that this visit to Micheldever Spoil Heaps has not been arranged by Hampshire & Isle of Wight Wildlife Trust and is not part of the Flora Group’s programme of events.



Micheldever Spoil Heaps (west side). Sue Bell

Book Reviews

THE NATURE OF THE NEW FOREST: CELEBRATING THE WILDLIFE OF A WORKING COMMON

Clive Chatters, Pisces Publications, 2024. 320 pages, c.700 colour photographs, maps and other illustrations. ISBN 978-1-913994-14-3

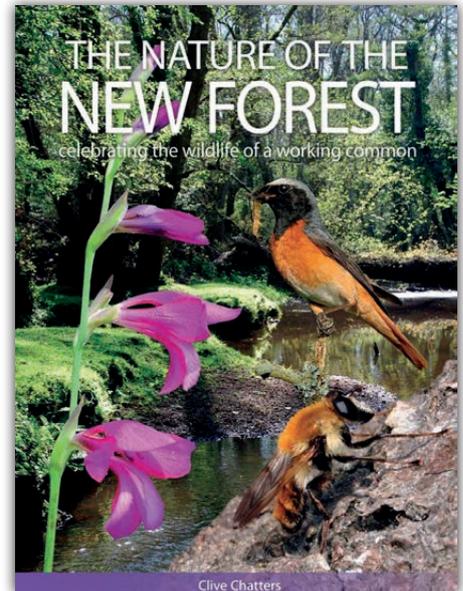
A review by Martin Rand

Given the fame, the uniqueness and the international importance of the New Forest, there are remarkably few books to which a general reader can readily turn for a wide-ranging and serious account of its nature. Pre-eminent are Colin Tubbs's three books, *The New Forest: An Ecological History* (1968), with a strong emphasis on the prehistory and history that shaped the Forest; the New Naturalist book *The New Forest* (1986); and *The New Forest: History, Ecology and Conservation* (completed by his wife Jenni and published posthumously in 2001). Colin had the advantage of a deep knowledge of the Forest and engagement with it over a long period of his life, and these books remain essential reading although often hard to come by at a reasonable price. More recently, Hadrian Cook has published *New Forest – The Forging of a Landscape* (2017) but this is primarily a political, legal and cultural history with the natural elements taking a back seat. There are other publications covering various aspects of the Forest's wildlife, but these generally fall into the categories either of a field handbook or of a limited and not always very accurate overview.

Now Clive Chatters, who has engaged with the Forest for 40 years as naturalist, conservationist and participant in its governance, has published a new book. He has of course written on the subject in many contexts over the years, and *Flowers of the Forest* (2009) is an excellent and absorbing read on the plant life of the New Forest National Park and the people who have engaged with it over the centuries. The new book is more limited in geographical scope, covering those areas which are open to commoners' grazing animals (the 'Open Forest'), but it presents a very wide survey of the wildlife that can be thought of as 'special' within the area for a variety of reasons that include rarity, but also diversity and representativeness of the Forest habitats.

The first impression of the book will be of the quality of its design: a rather large format (suitable for a small coffee-table!), a (literally) glossy production, and a range of photographs that are beautifully presented and sometimes stunning. However, you would be wrong to consider this a 'coffee table' book, since these are set within a matrix of textual narrative that does a first-rate job of explaining the Forest and its special qualities to readers. Whether they are newcomers to the whole area or specialists in some aspect, they will surely learn something new and derive a lot of pleasure on the way.

More than half of the book is devoted to chapters on all of the more conspicuous species groups: these are not mere catalogues, but a series of selective portraits that give species a context in the living landscape and explain what makes them worthy of note. As a result, one's understanding of how the Forest works (or sometimes doesn't work) in terms of its physical setting and habitats, its history, its management and the pressures acting on it from the outside world is enhanced in both breadth and focus. Supporting this sandwich filling, a first chapter introduces the geology, geomorphology and soils of the Forest in non-specialist terms (often difficult to achieve for lowland landscapes of low relief and soft strata), and chronicles modern attempts to get natural geomorphological processes back into the environment after centuries of disruptive interference. The second chapter defines the Open Forest and its habitats, relating them to the human factors and natural processes that shape them. At the other end, there are three chapters on change: a selective study of gains and losses at both the habitat and the species level; an exposition of dynamism in the Forest landscape and why it is an important aspect of the Forest's survival; and a brief epilogue ('A Long View') which is a plea and justification for focusing the management and conservation of the Forest on maintenance of the pastoral economy and the natural dynamism of the landscape, rather than on a narrow special interest (even a conservationist's one).



Anyone who has read the author's books for the *British Wildlife* series (*Heathland* and *Saltmarsh*) will know that they not only present their subject in a readable and accessible way but provide illumination from some surprising and thought-provoking angles. Those of us who have spent much time in the Forest will perhaps have fewer surprises here, but still plenty to think about. The commentary which appears from time to time on mismanagement and misguided interference is robust and trenchant. If you take the New Forest seriously this is a book you will want to own, read, revisit and push under the noses of acquaintances; and if your interest so far has not been so deep, then delight and revelation await you.

WOODRUSHES OF BRITAIN AND IRELAND

Tim Rich, privately published, 2024. 74 pages, 108 colour photographs, maps and line illustrations.

A review by Martin Rand

We are fortunate in Britain to have a very good range of handbooks for substantial sections of our flora, supplementing the necessarily rather brief information given in the standard national Floras and field guides. Many of these are published by the Botanical Society of Britain and Ireland (BSBI). Understandably, the coverage leans towards large and challenging families such as Sedges, Umbellifers and Crucifers and extends to the 'critical' genera that contain many hybrids (for instance, Willows and Roses) or subtly different apomictic and agamic species (such as Whitebeams and Dandelions). Sometimes one wishes for similar treatments of the smaller groups that can cause difficulty, and this has been partially met by the BSBI *Plant Crib* which has gone through several incarnations and is now available in pieces on the BSBI's national website (downloadable for free). However, the coverage is somewhat opportunistic, depending on who was available to write accounts at the time, often very brief and confined to the key recognition features, and in some cases now rather out of date. Also, accounts usually focused on groups with a very few related species, or a selection.

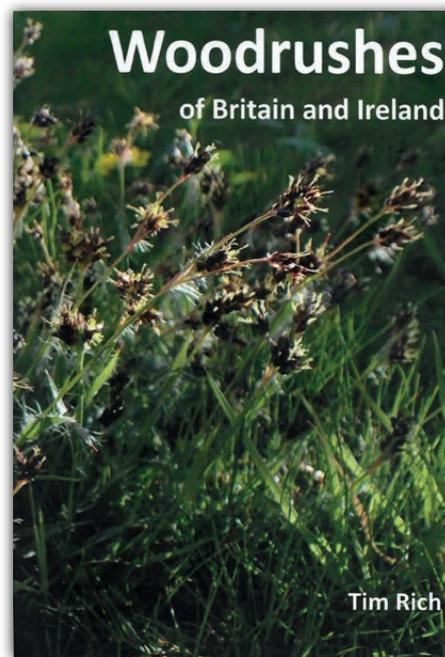
There remains a middle ground of genera where 'mini-handbooks' would also be useful, and the BSBI has filled some of those gaps with volumes on Evening-primroses and Fumitories, for instance. The book being discussed here is for an even smaller genus (within Britain) and follows a similar format in both size and presentation, but has been self-published by the author, who was one of the editors of the *Plant Crib* and is author or co-author of five of the BSBI Handbooks. Tim Rich is named as author but the treatment also owes much to Jan Kirschner, a European expert in the family to whom the book is dedicated.

Introductory sections provide a global summary of the genus *Luzula* and a guide to the parts of the plant that are useful in identification. These are followed by a comparative table that lays out characters for all the species and subspecies on a single page. Annoyingly, the species numbering does not follow that in the main accounts. This is followed by a pair of keys, one for flowering plants (although fruiting characters are also relied on) and one for vegetative plants. They include some useful line drawings.

Nine native species, two non-native species, two subspecies and one hybrid are treated fully, with mention of a few other subspecies and hybrids that have not been confirmed for Britain. A novelty for many British readers will be the treatment of *Luzula congesta* as a separate species.

The species accounts that follow include a full description of each taxon nicely laid out in paragraphs for each part of the plant, with the name of the part picked out in capitals. This is supplemented by identification notes, taxonomic notes and an account of habitats and distribution, with the British and Irish distribution mapped from BSBI Online Plant Atlas 2020. Particular points of distinction between taxa that can cause difficulty are given a fuller treatment in separate boxes within the text. The accounts are very fully illustrated with colour photos, backed up by line drawings where these are more informative.

The book concludes with a brief but clear glossary, with references back to figures earlier in the book, and a good set of references.



I have not had a chance to field test this book, but I believe it will certainly be useful in the field or at the desk for resolving ID uncertainties and for gaining a better understanding of the genus as a whole in Britain and Ireland. It would have benefited from closer editorial attention: apart from the point already noted, there are some cross-referencing errors, and the author of the 1904 Flora of Hampshire has been turned into William Bromfield. But these are minor points, and I expect this book to be a useful addition to our armoury of identification tools.

Recording

Recording particular 1 km squares

A note by Tony Mundell

As explained by Martin Rand on pages 17–18 of the Autumn 2024 edition of *Flora News*, there are various sorts of botanical activities taking place in Hampshire in addition to the programme of field meetings and workshops arranged by the Hampshire & Isle of Wight Wildlife Trust Flora Group. These additional events include outings to search for particular threatened plants at the spots where they were recorded in the past, and also searches to record every plant seen in 1 km squares that have very few previous records. As Martin pointed out, he and I advertise our outings on the Calendar page of the Hants Plants website asking for just one or two people to join us, but on the strict understanding that these are not trips arranged by the BSBI or the Hampshire & Isle of Wight Wildlife Trust's Flora Group. Rather you come entirely at your own risk as you would if you went out for a walk with a friend. Personally, I have done many outings searching for Threatened Plants in 2023 and 2024, but in 2025 I will be mainly trying to collect records for the most poorly recorded 1 km squares.

I have prepared a list of very poorly recorded 1 km squares in VC12 which have been added under Projects on the Hants Plants website, and Martin has done the same for VC11. Apart from those who wish to join me on my own outings to particular 1 km squares on the dates that will be added to the Calendar, I am hoping that others will select one or two of these poorly recorded 1 km squares, in order to list the species seen and pass the records on to me. Separate checklists for the two vice-counties, with notes on access, etc. are downloadable from the Hants Plants website (hantsplants.uk); look under 'Projects/Under-recorded monads'.

Any takers for some IT?

A note by Martin Rand

While I was looking for someone or (somefew) to take over from me as the BSBI's South Hampshire Vice-county Recorder, I was also asking people I knew whether they would be interested in sharing the support of the computer software and the Hants Plants website that I've implemented over the last 20 years, to support the recorders' tasks and to provide a general service to BSBI and Flora Group members. Having fulfilled the first objective very successfully, with Tristan now in place and supported by a strong team of county botanists who are not as close to the rest home as me, I've so far failed in the second. I'm now putting this out as a plea to the world in case there is anyone in Hampshire who has at least a passing interest in both botany and software and would like to take on a hobby project in the latter.

I would emphasise that I'm not expecting to find a professional-grade developer, nice as that would be; if you have some background in either of the areas mentioned below, I will be happy to get you up to speed on any aspects that you are not familiar with as long as you are willing to devote the time (primarily over the winter months). But it will certainly be best if you have a bit of familiarity with the technology mentioned.

Apart from interacting with myself, you would be helping Tristan regularly, Tony from time to time, and other people occasionally.

Data handling

This is the less visible of the things I do, as it mainly concerns tasks that the county recorders perform to move data from one computer system to another, validate it, analyse it and report it. This is a diminishing burden at present, as developments at the BSBI have made it easier to get data into their national Distribution Database

('the DDb') via simpler procedures. However, we still need to deal with special situations and troubleshoot any problems; and for the annual report on South Hampshire records in *Flora News*, much of the work of selection, embellishment and formatting of the records into a Word document is automated by my software.

The technical bit: these tasks are implemented using the Python programming language (Python 3.x). Obviously some prior exposure to Python is a big positive, but if you are familiar with any high-level imperative programming language of the last 40 years you would probably not find it difficult to learn. Part of its popularity comes from its adoption by people who are not software professionals (for instance scientists and other researchers, statisticians, data analysts) for its expressive and relatively simple syntax as well as its extensive high-quality libraries for maths, data cleaning and transformation, data visualisation, AI and machine learning. I develop and run Python on Windows, but if you use Linux or MacOS that would not be a problem.

You will also need to be given access to the DDb, which can be arranged. Importing and exporting DDb data is not difficult and doesn't require arcane database knowledge, as the BSBI provides tools for automating the validation and conversion of incoming data from other recording systems and a user interface that simplifies the process of making search queries to extract data.

Hants Plants (hantsplants.uk)

This is where the public-facing things happen. If you have used it you will know that it provides a botanical events diary for the county, access to lots of documentary resources (including all back issues of this newsletter), and other resources and tools to support county or national recording projects.

It is under continuing development, but there are several aspects that have been stalled for a while, particularly a secure login and authorisation system to allow other people to contribute content directly, and targeted forms to enable them to do so. As new projects come along, support facilities for those are developed. However, large parts of the site are concerned with delivering static content, and do not require anything very complicated when new content is added (although it would be a good sub-project to rationalise how some of it is handled).

The website is hosted by a commercial service provider which means that the fundamental admin and security for the site is taken care of. This comes at an annual cost which I bear, and I am happy to continue doing so for the foreseeable future. The cost is significant but not huge so that after that, it should be possible to fund by grants or donations. I have used the same service provider for decades and, although they are not the cheapest, I have found them among the best for security, speed, reliability and uptime.

The technical bit: the site uses a very conventional 'software stack' with the usual messy assemblage of technologies. It's what the service provider supports. I've occasionally experimented with other more modern solutions from other providers but haven't found anything yet to lure me into making the huge commitment to move. For the front end (the software that is managed by the user's Web browser): HTML5, CSS3 ('Cascading Style Sheets') with the Bootstrap libraries providing 'responsive design' (i.e. the web pages adapt to the size of the display in order to be usable anywhere from smart phone to big monitor); and JavaScript for handling the more complex up-front interactions with the user (with JQuery to make the code more concise and in my opinion more readable). For the back end (what happens on the service provider's server): PHP 8.x as the programming language for handling the behind-the-scenes processing of data requests, and MySQL as the database storing the data. I have an aversion to using third-party Web frameworks, which impose an overhead and can be impenetrable when you have a problem, preferring to deploy third-party libraries where I can (usually!) more easily navigate the source code should an issue arise.

If you have never been exposed to any of this before, think seriously about volunteering unless you are very brave; and it will probably take you a couple of years to get fully conversant. At a minimum I'd say you should know some HTML and CSS and understand how a browser interacts with a server to make requests and get responses back (in the form of Web pages or chunks of data). To be able to interact with the MySQL databases you will need to know or learn some SQL (Structured Query Language), but that is a relatively small job compared with learning PHP (a language apparently designed on the principle 'chuck it together over a long period of time involving lots of people of varying competence, several of whom will work on the same requirement independently and come up with different solutions all of which will be adopted into the language or its software libraries'; but it gets the job done).

Bryophyte report for 2024

John Norton

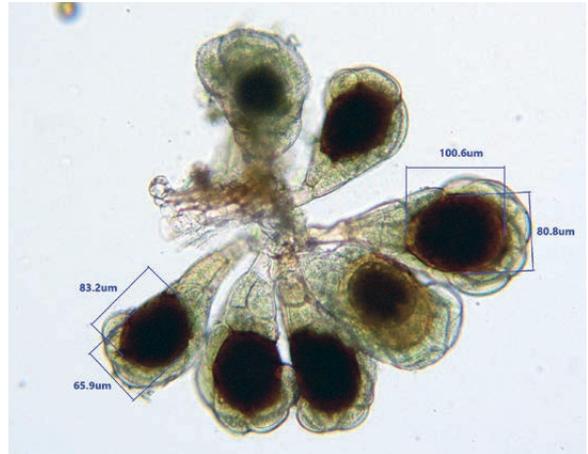
Update on *Bryum dichotomum* from the Isle of Wight

In my last report (*Flora News* 66, February 2024) I recounted some highlights from a trip to the Isle of Wight in December 2023 with George Greiff where we found the rarely recorded form of *Bryum dichotomum* with stipitate (stalked) gemmae in the leaf axils. Subsequently, George started to think more about these plants and realised that the gemmae reminded him of structures he'd seen on another moss that are caused by a fungal parasite. After studying the specimens more closely he came to the conclusion that they are actually galls caused by a parasitic chytrid fungus. Opaque material inside the galls appears to be the multinucleate plasmodium (feeding) stage of the fungus. Possibly the structures do start off as gemmae or bulbils, which then become infected. Through a preliminary attempt at sequencing George has discovered that the fungus is a match for the genus *Synchytrium*. Further investigation remains to be carried out and it is hoped a paper will be published at some time in the future.

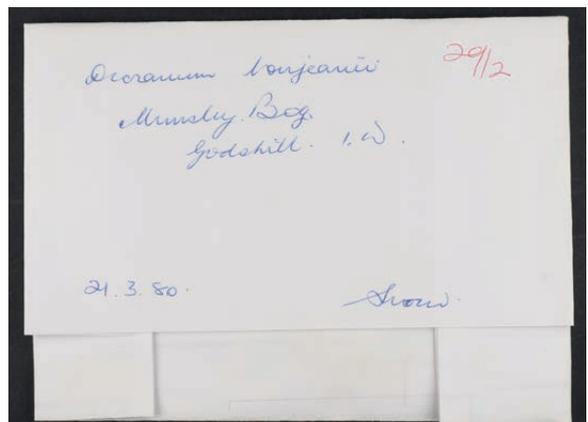
Lorna Snow's herbarium

In March 2024 I was finally able to take possession of the bryophyte herbarium of the late Lorna Snow, the former recorder for the Isle of Wight. This had been passed to her niece who first contacted me in December 2018 with a view to me arranging to deposit it with the Natural History Museum. The delay in collecting the herbarium from her niece's house on the Island was mainly due to the Covid pandemic halting any longer excursions there. The Museum has expressed an interest in adding the herbarium to their collection and I hope to send it to them later this year.

In the meantime I have begun transcribing the details on the packets so that I can submit the records to the British Bryological Society (BBS). In all there are 737 packets housed in two large cardboard boxes. Just over half (377) of the specimens were collected from the Isle of Wight and the others mainly from North Wales, Oxfordshire, West Sussex, France and Spain, including several sent to her presumably for use as reference material by other recorders. Transcribing the data from the packets will take me much longer than I initially thought, but I hope to complete it soon. Although many of the records are already in the BBS database, none of them are marked as having been collected as specimens, so adding this information will be useful. I also hope to examine some of the more interesting specimens, including those for taxa that have been more recently split to see if I can improve on 'sens. lat.' records.



Synchytrium galls in bulbils of *Bryum dichotomum* from Isle of Wight. John Norton



One of two boxes of Lorna Snow's bryophyte herbarium and a packet containing a moss specimen (*Dicranum bonjeanii* collected from Munsley Bog, 21 March 1980). John Norton

Photographs of British bryophytes

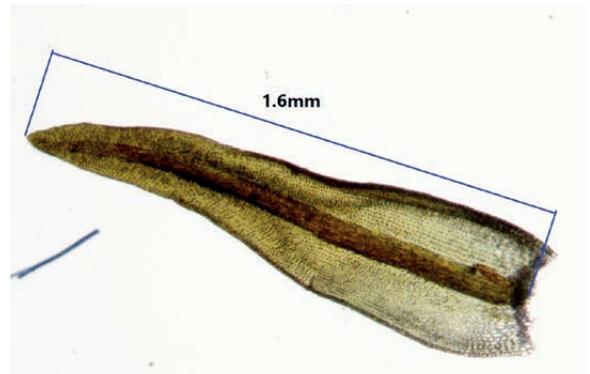
I have included a few photographs to illustrate this report, and more can be found in the online reports on the BBS website (see Meetings Reports below). However, it is also worth mentioning that the website now has a large number of photographs of bryophytes of almost every British species, and these are constantly being added to, providing a fantastic resource for anyone trying to learn bryophytes. The photos include general shots of mosses in their habitat and close-ups, as well as micrographs showing the cell structure of leaves and other organs. The home page of the website (www.britishbryologicalsociety.org.uk) has a search bar which provides a quick and easy way of locating the species pages where the photos are displayed. Links are also given to the 2010 field guide accounts and the 2014 atlas maps for each species, which can be viewed on screen or saved as pdfs. A new edition of the field guide is currently in preparation and it is expected that it will be published later this year.

A tufa-forming moss

Didymodon is a difficult genus of small mosses which grow on walls and soil, but one of the more distinctive species is *D. tophaceus* which when growing on walls often accumulates a crust of calcium carbonate on its shoots – so as its name indicates is somewhat ‘tufa-forming’. It is a fairly common and widespread species, and in Hampshire I have collected several specimens from walls and grassland in my local area and from further afield, particularly along the coastal estuaries. I was also familiar with a more luxuriant form which grows on constantly wet seepages on cliffs around the south coast of the Isle of Wight.

A taxon first described as *Didymodon sicculus* from south-east Spain in 1996 was later demoted to a subspecies of *D. tophaceus*. It has coastal tendencies and a degree of tolerance to dry and saline conditions. It had been found new to Britain on Lundy Island, where collected from a wall in April 2021. My specimens from Hampshire appeared to fit the morphology of this better than the nominate *D. tophaceus* subsp. *tophaceus*; however, one character (the presence of round cells instead of elongate cells covering the costa in mid-leaf) wasn't quite right (my specimens only had round cells in the upper 20–25% of the leaf).

Eventually, in February 2023, I found a specimen at the edge of the saltmarsh at Gilkicker Point, Gosport which was producing capsules, and sent a specimen to Tom Blockeel, one of the British experts in the genus. He passed it on to European *Didymodon* specialist Jan Kučera, who sequenced it and confirmed it was indeed *Didymodon tophaceus* subsp. *sicculus* (we only heard back from Jan in March 2024, by which time a second British record had also been confirmed). I now suspect that many of the plants I've been seeing in drier situations around the Solent estuaries are likely to be subsp. *sicculus*. The species is common on brick walls around my local roads where it grows in neat, rounded cushions, similar to that described for the Lundy plant. The leaves of these are consistently short and bluntly rounded, whereas those of subsp. *tophaceus* are longer and more pointed. Subsp. *tophaceus* also has a dark reddish-brown nerve, which is green or not as strongly coloured in subsp. *sicculus*. My Gilkicker specimen is probably only the second



Top: typical leaf of *Didymodon tophaceus* subsp. *sicculus* (c.1.1 mm long) from Gilkicker; centre: leaf of *D. tophaceus* subsp. *tophaceus* from Isle of Wight (1.6 mm long); bottom: fruiting plants of *Didymodon tophaceus* subsp. *sicculus* on a bank at Gilkicker, April 2024 (mixed with leaves of *Tortella flavovirens*). John Norton

to be collected in Europe with capsules and my preliminary observations indicate that these are distinctly smaller than those of the nominate subspecies (which fruits freely when growing on wet seepages).

The Gilkicker colony was growing on a dry soil embankment between the shingle beach and an area of saltmarsh, under cover of *Quercus ilex* trees. It was with abundant *Tortella flavovirens* (a saline-tolerant species also of walls and saltmarsh in coastal areas). Another habitat where I suspect subsp. *sicculus* may be common is salted road verges. It wouldn't surprise me if *D. topiaceus* subsp. *sicculus* will turn out to be the commoner form around the Hampshire coast, once the morphological characters become more widely understood. Interestingly, specimens I collected from intermittently damp sandy cliffs on the coast at Chilling (south of Warsash), appear also to be closer to subsp. *sicculus*.

Meetings Reports

Reports of meetings held in 2024 are available on the BBS website so I have only given brief details here and commented on a few of the more interesting records. To see the full reports follow the BBS website link given above and click on Events, Local, Southern Group. Future meetings are usually shown on my own website (www.hantswightbryology.net) but if you want to be notified of meetings please contact me (john@hantswightbryology.net) to be added to the Southern Group email list.

Town Common and St Catherine's Hill, Christchurch (VC12) 31 January 2024

Robert Sharp and I arranged this meeting at short notice to have a better look round his local area following a previous brief visit I had made with a few others in September 2022. He had recently found a candidate for *Calypogeia neesiana*, which had only been recorded in Hampshire once before at this site, in 1958 by Jean Paton. Robert's specimen looked convincing but it was subsequently not accepted by the referee and was probably just weakly growing *C. muelleriana*, a common species of acid woodland which we found again during the meeting. The site supports an interesting mix of pine woodland, heath and mire with some damp sandy areas which are rich in liverworts. Due to the way in which records were entered in the past, there were only 14 bryophyte records for this 5 × 5 km quadrant (SZ19NW) prior to the 2022 visit. On that visit we also updated Paton's 1958 records of the liverworts *Odontoschisma denudatum* and *Odontoschisma francisci*, and found the two increasing alien species *Lophocolea bispinosa* and *L. semiteres*. During the January 2024 visit we recorded around 60 taxa, including the heathland liverwort *Gymnocolea inflata* and the mosses *Plagiothecium denticulatum* and *Pohlia nutans*.

Pamber Forest (VC12) 10 February 2024

This meeting was organised by Jonathan Sleath (VC12 recorder). The site is a Hampshire & Isle of Wight Wildlife Trust nature reserve situated just south of the village of Pamber Heath, lying between the Tadley and Silchester on the Hampshire/Berkshire border. Most of the site lies within the 1 km squares SU6160 and SU6161. I didn't attend but those that went recorded 77 taxa including the second VC12 record for *Platygyrium repens*, the now uncommon *Dicranum tauricum*, plus *Homalia trichomanoides*, *Herzogiella seligeri* and *Ulota intermedia* (a recent split of *U. crispa* agg.). These are all epiphytes on standing or fallen trees. A specimen of *Conocephalum conicum* was collected, which was needed as a voucher for VC12 (see below) as none had been available when this was split from *C. salebrosum* several years ago (the latter is mainly a northern species and has not yet been recorded from Hampshire).

Shipton Bellinger (VC12) 6 April 2024

This meeting, also organised by Jonathan Sleath, was held in the area east of Salisbury Plain, south of Tidworth at SU2346 (VC12). We recorded 85 taxa including several characteristic species of chalk country, including *Abietinella abietina*, *Entodon concinnus* and both *Seligeria calcarea* and *S. calycina* (tiny mosses which grow on chalk rock). The highlight of the meeting was finding several colonies of *Campylophyllopsis calcarea* growing over the exposed roots at the base of Beech trees in a plantation, though this is also a species that will also grow on bare chalk. It is surprisingly rare in Hampshire, with the most recent records being from 1969, 1975 and 1990, also in VC12. It was only when I checked my photos later that I realised one colony was partially covered with orange discs of a bryophilous fungus, but I didn't have a specimen to check the spores. George Greiff told me that there are no species specifically associated with *Campylophyllopsis*, except possibly an unnamed taxon which has never been recorded in Britain, so it would be worth going back sometime to collect it. Another highlight was finding plentiful patches of the liverwort *Oleolophozia perssonii* (formerly *Lophozia perssonii*) on

chalk paths within the wood, this being the third VC12 and Hampshire record. We also recorded its associate *Mesoptychia badensis* (formerly *Leiocolea badensis*), although the usually more common *M. turbinata* was not seen.

Beacon Hill and Caesar's Camp (VC12) 4 May 2024

This was not an organised meeting but I joined Jonathan Sleath and Sharon Pilkington to have a look at the MoD area between Fleet and Aldershot, including part of Caesar's Camp. In woodland south of Beacon Hill we found *Scapania undulata* on a small watercourse and on rotting logs *Herzogiella seligeri*, *Cephalozia curvifolia* (formerly *Nowellia curvifolia*) and *Lepidozia reptans*. In a shingly area in the bottom of an old reservoir we found a small cushion of a puzzling moss which looked like a *Tortella*. After checking under a microscope Sharon later confirmed this as *Tortella fasciculata*, a new record for VC12 and Hampshire. This was previously known as *T. bambergeri*, before that was split into *T. fasciculata* and *T. pseudofragilis* in 2017. It was very surprising to find it in Hampshire, since it is predominantly an upland species and fairly rare except in Wales (most past records of *T. bambergeri* are presumed to be this taxon, though *T. pseudofragilis* has been recorded in two British vice-counties). Near Caesar's Camp we explored a small, narrow gully cut into the sand where we found some patches of a small liverwort, later confirmed by Sharon and the liverwort referee as *Sphenobolus minutus*; also new to VC12.



Campylophyllopsis calcarea with an unknown bryophilous fungus, Shipton Bellinger, April 2024.
John Norton

Burley Rocks and Mill Lawn (VC11) 3 November 2024

I had hoped to hold this meeting at Ashley Heath, west of Ringwood, and did a recce there with Graeme Smith on 17 September. However, this proved not to be ideal for several reasons (including ungrazed wet heath with *Molinia* tussocks impossible to walk through) so instead it was decided to hold it at the Mill Lawn and Burley Rocks area in the New Forest. The meeting was held during a period of miserable cloudy and drizzly weather, but there was a good turnout, with around 20 people for at least part of the meeting.

Burley Rock refers to a type of hard iron oxide ('ferricrete') which forms a plateau extending 2.5 km east from Burley village. It was used to build some of the houses in the area (see burleyhistoricalsociety.weebly.com/burley-rock.html). On the north side of the plateau there are a series of runnels and flushes draining from the rocks which support an extensive area of mire, much of which is mineral rich and neutral to base rich in character. The main area lies within the 1 km square SU2203, where the 2012 meeting took place; however, during the 2024 meeting we also managed to do some recording in SU2303. During the meeting we recorded 12 species of *Sphagnum* and brought the total for the area to 15. The most interesting of these was *S. contortum*, a base-demanding species known from only eight other localities in the New Forest and otherwise scattered and rare in southern England (it is mainly a species of western and northern Britain). The plants here were unusually strongly coloured (some becoming bright orange). This must be the largest colony now known in the New Forest – we found one population of 20+ cushions along one of the



Sphagnum contortum, Burley Rocks, November 2024.
John Norton



Bryologists at Burley Rocks, 3 November 2024. John Norton

runnels and plenty more in other areas that we didn't have time to record properly. It was also nice to see all three *Scorpidium* species: *S. cossonii*, *S. revolvens* and *S. scorpioides* (which are shades of green, red and purple respectively) – these being good indicators of base rich conditions and nice habitat generally.

We stopped for lunch in some willow carr at the edge of the mire where Sharon Pilkington spotted a thick carpet of green fuzz on the side of a fallen log. This was later confirmed as *Kurzia sylvatica*, a mainly northern and western species with only one previous Hampshire record in the New Forest, from Mark Ash Wood by Jean Paton in 1977. Coincidentally, Jonathan Sleath had also recorded this species ten days earlier during a visit to Eelmoor Marsh, which was a new VC12 record.

We finished the day by walking back along the Mill Lawn Brook. A very respectable total of 90 taxa was recorded during the meeting. One other observation of interest in the mire was a Harvest Mouse nest in a tussock of Common Cottongrass *Eriophorum angustifolium*, made of woven leaves of *Molinia*. We didn't disturb it in case there was an occupant inside!

Woolmer Forest (VC12) 30 November 2024

This meeting was organised by Jonathan Sleath with grateful help from two members of the Amphibian and Reptile Conservation Trust (ARC) who manage part of the site (notable for supporting all the British native species, including Natterjack Toad). They kindly arranged permission from the MoD and parking, and gave up their Saturday to guide us round the part of the site. This was the first (of two) locations in Britain for *Protolophozia herzogiana* (formerly *Lophozia herzogiana*), found first by Alan Crundwell in 1986, and later in 1997, but not seen since.

We looked at some mire and willow carr in SU7933, where progress was very slow due to the tall and dense *Molinia* tussocks interspersed with deep pools. There were a few common bog liverworts and *Sphagnum* species, in addition to plenty of *Aulacomnium palustre* and some patches of *Straminergon stramineum*. Interestingly *Microlejeunea ulicina* was much more common on willows in the carr than the recently increased *Myriocoleopsis minutissima*. Along the main perimeter track Pete Flood found *Anthoceros punctatus*, one of the four British hornworts, and a new record for VC12.

We moved into SU7932 where we spent some time looking at the rifle range, on an area of regularly mown wet heath and acid grassland. Species here included *Pohlia annotina*, *Pseudephemerum nitidum*, *Riccia sorocarpa*, *Scapania irrigua*, *Solenostoma gracillimum* and fertile *Cephaloziella hampeana*. *Lophozia excisa* grew in short eroded turf with tiny rosettes of an unidentifiable *Fossombronina*. We then headed north towards the site of

Protolophozia herzogiana but with fading daylight realised we didn't have enough time to get there. However, Jonathan and I diverted off the track to grab some samples from a tarmac path surrounding a military building and I noticed that one of my specimens was a *Syntrichia* with a yellow excurrent nerve rather than the usual long white hair-point. We later realised that this was *S. montana* subsp. *calva*, the third British record of this presumably frequently overlooked form. We stopped nearby to look at an area of boggy wet heath at Cranmer Bottom where Pete Flood found *Sphagnum medium*, which still needed a VC12 voucher since the split of this species in Europe a few years ago. Although common in the New Forest, *S. medium/magellanicum* had only been recorded in two 10 km squares previously in VC12 and only once in the last 60 years, at Hazeley Heath (SU75). Another good find here was *Calypogeia sphagnicola*, the first record for VC12 since 1975.

We returned to look at an area of sandy acid grassland near to the perimeter track, which also had some small concrete-lined pools, where we added several more interesting species, including a rather stunted *Bryum alpinum*, which was only the second VC12 record since the 1950s. Jonathan had found *Fossombronia foveolata* in a couple of places here on his reconnaissance visit, a VC12 'debracketer' (see below) but we could not re-find it during the meeting. This liverwort may have been recorded in the area historically (possibly in the 1950s) but the only other VC12 record was for VC85 in 1969.

Although we were only able to visit a small part of this fascinating site, it was a successful meeting with 92 taxa recorded, but we had to postpone the hunt for *Protolophozia* to another day.

New vice-county records

Details of new records and debracketers for the period November 2023 to December 2024 are given below (includes records not published in the last *Flora News* report). These are records for which vouchers have been or will be submitted to the national BBS herbarium in Cardiff and which are listed in annual reports in *Field Bryology*, the BBS magazine. Debracketers are species which have been seen for the first time since 1970 (by convention species which were last recorded prior to this date are listed in the vice-county census catalogues in parentheses).

Some of the records relate to taxonomic revisions which necessitated submitting new vouchers for the BBS herbarium. These include a couple of records mentioned earlier in this report and a record of *Trichostomum brachydontium* which has recently been split into four species, three of which occur in Britain and Ireland. Sharon Pilkington (who is the BBS national moss referee) checked a large number of herbarium specimens from public and private collections and drew up a list of verified vice-county records (*Field Bryology* 132, November 2024). In our area it is likely that *T. brachydontium* s. str. is the usual species and although previously recorded in all three vice-counties, a verified specimen was only available for VC10. A voucher that I collected recently from the New Forest was therefore submitted for VC11, but a specimen for VC12 is still required. One of the other taxa, *T. littorale*, has oceanic tendencies and there is therefore a chance it could be present on the Isle of Wight.

Liverworts

***Anthoceros punctatus*, VC12.** Woolmer Forest, SU7832, 30 November 2024. Verge of site perimeter track, in acid grassland. P. Flood, conf. N. Hodgetts. New to VC12.

***Conocephalum conicum*, VC12.** Pamber Forest, SU6161, 10 February 2024. Stream bank in woodland. S. Pilkington, conf. N. Hodgetts. First vouchered record for VC12 since taxonomic split from *C. salebrosum*.

***Fossombronia foveolata*, VC12.** Woolmer Forest, SU7890 3252, 11 October 2024. J. Sleath, conf. N. Hodgetts. VC12 debracketer.

***Riccia crystallina*, VC10.** Shanklin, SZ 5749 8201, 17 December 2023. Locally abundant on bare mineral soil on more recently used camping pitches, Lower Hyde Holiday Park. J. Norton, conf. N. Hodgetts. New to VC10.

***Sphenolobus minutus*, VC12.** Caesar's Camp, SU 8366 5026, 4 May 2024. S. Pilkington, conf. N. Hodgetts. New to VC12.



Syntrichia montana var. *calva*,
Woolmer Forest, November 2024.
John Norton

Mosses

***Bryum gemmilucens*, VC10.** Nodes Point Holiday Park, St Helens, SZ 6350 8960, 20 December 2023. Junction of tarmac road and concrete kerb. G Greiff & J. Norton, conf. S. Pilkington. New to VC10.

***Dicranella howei*, VC10.** St Catherine's Point, SZ 4944 7568, 2023. On calcareous soil with *Fissidens incurvus*. G. Greiff, conf. S. Pilkington. New to VC10 (since being recognised as occurring in Britain – see report in *Flora News* 61, Autumn 2021).

***Didymodon icmadophilus*, VC11.** Janesmoor Plain, Fritham, New Forest, SU 2449 1348, 21 October 2023. In well-grazed basic grassland of former runway. Coll. & conf. S. Pilkington. New to VC11 and Hampshire (records currently listed in the census catalogue for VC10-12 are in error for either *D. acutus* or its aggregate with *D. icmadophilus*).

***Didymodon toppaceus*, subsp. *sicculus*, VC11.** Gilkicker Point, Gosport, SU 60376 97706, 24 February 2023. On dry bank separating shingle beach from adjacent area of *Juncus maritimus* saltmarsh, under shade of *Quercus ilex* tree. Few small fruiting patches (2+ cm across) amongst much larger patch of *Tortella flavovirens*. Soil probably weakly saline. J. Norton, conf. J. Kučera through DNA sequencing. New to VC11 and Hampshire (second British record when collected).

***Ephemerum recurvifolium*, VC10.** Rowlands Lane, SZ 6006 8912, 18 December 2023. Ledge of chalk pit. G. Greiff & J. Norton, conf. S. Pilkington. VC10 debracketer (second record since first in 1926 at Whitecliff Bay, Bembridge).

***Kurzia sylvatica*, VC12.** Eelmoor Marsh, SU 8392 5303, 24 October 2024. On a peaty bank. J. Sleath, conf. N. Hodgetts. New to VC12.

***Microbryum davallianum* var. *conicum*, VC10.** Little Duxmore Farm, Havenstreet (HIWWT nature reserve), SZ557879, 18 December 2023. In calcareous substrate along farm track. G. Greiff & J. Norton, conf. S. Pilkington. New to VC10 (following recent re-assessment as a valid taxon).

***Plagiomnium cuspidatum*, VC11.** Janesmoor Plain, Fritham, New Forest, SU 24382 13162, 21 October 2023. Well grazed, weakly acidic grassland. R. Sharp, conf. S. Pilkington. New to VC11.

***Sphagnum medium*, VC12.** Woolmer Forest, SU794327, 30 November 2024. Acid bog. P. Flood, conf. S. Pilkington. VC12 debracketer.

***Syntrichia montana* var. *calva*, VC12.** Woolmer Forest, SU79333282, 30 November 2024. On tarmac path around military building. J. Norton, conf. S. Pilkington. New to VC12 and Hampshire (3rd British record).

***Tortella fasciculata*, VC12.** S of Beacon Hill, SU 8276 4993, 4 May 2024. Coll. & conf. S. Pilkington. On shingle in base of old reservoir. New to VC12 and Hampshire.

***Tortula atrovirens*, VC10.** Culver Cliff, Bembridge Down, SZ 62664 85523, 17 December 2023. On bare soil on lip of slumped area near top of cliff. G. Greiff & J. Norton, conf. S. Pilkington. VC10 debracketer (second record since first in 1930 near Newtown).

***Trichostomum brachydontium*, VC11.** Beaulieu Heath, New Forest, SU 3489 0136. Frequent small cushions in acid grassland with calcareous influence, along edge of tarmac roadway at N end of Beaulieu Heath. J. Norton & J. Sleath, conf. S. Pilkington. First vouchered record for VC11 since recent taxonomic split of this species.

***Ulota crispula*, VC12.** Basingstoke, SU 654523, 24 June 2023. Trunk of *Alnus glutinosa* in boggy woodland near River Loddon. P. Thompson, conf. T. Blockeel. First vouchered record for VC12 since taxonomic split from *Ulota crispa* agg.

VC11 notes and records

Compiled by Tristan Norton and Martin Rand

It's been yet another year of bountiful and varied records and we extend our heartfelt gratitude to all those who continue to get out and about and submit their observations: please keep it up! Whilst all records are most welcome, particular mention must go to those who undertake regular and comprehensive recording year-round. Mike Rowe submits many hundreds (if not more) of records each year, mostly from the south-west, and his attention to providing fine identification details is especially pleasing. Andrew Powling and Eric Clement clearly enjoy trips out together to record in detail and contribute many, many records from varied locations. Anna Stewart provides hundreds of interesting observations from the Winchester area, and Bob Wardell continues to record nearly everything growing in the Havant and Portsmouth areas.

We would like to draw attention to the recently-launched BSBI Recording app – see docs.bsbi.org/recording-app. This is available for use by all BSBI members and can be downloaded as a mobile application or for use on your laptop, tablet or home PC. One of the benefits for us as BSBI recorders and verifiers is that all records are placed into an easily accessible space on the BSBI database and, once checked and verified, appear almost instantly on the database.

If you don't like recording into an app, another BSBI development is the provision of a spreadsheet for batch upload of data straight to the BSBI database. The advantage of this spreadsheet over previous offerings is that it does a lot of the validation work as you enter data. Martin will shortly make this spreadsheet available on the Hants Plants website under the Recording menu with an announcement in the Hants Plants news feed and on the Flora Group Facebook page when it's available. BSBI would prefer to deal with larger datasets by this route rather than receive lots of small files, so if you use the form please send it to either of us so that we can batch contributions up for submission.

No matter how you do your plant recording, one of the great joys is to find something either not recorded before at all or that is new to a particular area or that has not been recorded for a long time. In this first category we have a good few this year. These are inevitably almost always alien species, and recording these species as they first appear and subsequently spread (or not) is hugely valuable information.

We have a very pleasing list of plants from A to Z this issue. For the next issue I would beg someone to contribute a plant beginning with X please! A *Xanthium* grass perhaps? Challenge laid down...

The most unexpected native find was *Taraxacum subnaevosum* (Pale-bracted Dandelion) found by Martin and others at Titchfield in April. Initially thought to be *T. ronaе*, John Richards was able to confirm the plant as *subnaevosum*, a species with a distinctly northern distribution in Britain: the nearest record is 150 km distant! For those of you thinking of immersing yourselves in the dark art of Dandelion identification, there may be similar discoveries to be made.

Also of note is the apparent rise in unusual Spurge *Euphorbia* species, with records of *Euphorbia dulcis* (Sweet Spurge), *E. stricta* (Upright Spurge) and *E. oblongata* (Balkan Spurge). The first record for Hampshire of *Euphorbia prostrata* (Prostrate Sandmat) was made by Bob Wardell in a Hayling Island cul-de-sac in September (where it carpets one stretch of pavement). It is well worth looking out for Sandmat species on areas of paving and pavements as we suspect there are more out there to be discovered.

For those of us visiting garden centres and plant nurseries, it's always worth having a look through the plant pots and especially those of plants from the Mediterranean region. Sam Thomas did exactly this in Havant (we are not sure if this was a purposeful plant hunting visit, or he was after something for the garden!) and recorded two alien Bitter-cress species: *Cardamine occulta* (Asian Wavy Bitter-cress aka Garden Centre Bitter-cress) and *Cardamine corymbosa* (New Zealand Bitter-cress). I (TN) had similar success in Brambridge, with both *Euphorbia maculata* (Spotted Spurge) and Prostrate Sandmat and *Cardamine occulta*. Sam Thomas had already recorded Spotted Spurge on Hayling Island.

I particularly liked visiting the *Plagiobothrys scouleri* (White Forget-me-not) recorded by Richard Coomber from Beaulieu Airfield in June, the first noted reappearance of this North American species since the 1980s. A delightful little plant it was too. Equally as attractive (to me) was the *Erigeron bonariensis* (Argentine Fleabane)

I recorded from Havant. I have subsequently found quite a cluster of plants in just a few residential streets. This is far from a widespread alien plant in Hampshire.

Other things to note are the continuing march of *Laphangium luteoalbum* (Jersey Cudweed). This plant is essentially ubiquitous across some areas of the county and being found in all sorts of habitats. It is likely that for future VC11 reports we will change the resolution at which we report this species to the hectad level. A similar trend is also apparent for *Polycarpon tetraphyllum* (Four-leaved Allseed), a species we will undoubtedly see much more of in the coming years.

Thank you once again for all your records, and please continue to enjoy your recording and please don't hesitate to get in touch with us with any queries.

Records

The codings at the front of each plant are:

* = Hampshire notable (** = British or English Red List). We list these whenever we have a record for a tetrad that is either new, or the first for a long time (usually taken as 20-25 years, but for species 'on the brink' it can be shorter). However, the account would be long and tedious in the case of some plants now on the English Red List that are widespread in Hampshire, so we summarise tetrads for these unless the record is a significant extension to the known range. First records for a long time then have the last recorded year in brackets; new tetrads are simply listed.

NA = Native or Archaeophyte. We list these if they are new vice-county records, new to a hectad or the first for a long time.

IN = Invasive, or Potentially Invasive, Non-native. We use the IUCN's three-pronged definition of 'Invasive', so that a plant like *Artemisia ambrosiifolia* (Ragweed), which hasn't actually invaded anywhere in Hampshire yet but will pose a health hazard if it does, are included. We also list these for new tetrads, but when you are recording we would like as precise a grid reference and as many supporting details as possible.

NN = other Neophyte Non-native. Defining Neophyte (arrived after 1500) or Archaeophyte (arrived by 1500) in a local context is beset with difficulty, but we use this category if the plant in the given location is outside its generally agreed native range and can reasonably be inferred to have got there recently by human agency whether intentional or not. That includes plants that are native elsewhere in Britain, or even nearby in other habitats. We list these if they are new vice-county records, new to a hectad or the first for a long time. For some, we simply list new hectads. We exclude patently planted trees and shrubs occurring in gardens, municipal parks and cemeteries unless they are also self-establishing or very likely to do so. However, we keep records for them on the database, so such records are welcome provided you state that they are 'Planted' if the only individuals clearly are planted, or 'Introduced' or 'Established' if they are spreading naturally from original plantings.

Abbreviations for recorders and determiners are:

AFu=Adam Fulton, AHP=Andrew Powling, AJR=John Richards, ALRo=Amy Robjohns, ASt=Anna Stewart, CC=Clive Chatters, CCo=Cath Corney, DPe=Dave Pearson, DRA=Debbie Allan, EJC=Eric Clement, FMo=Fanw Moore, GHi=Gill Hickman, ICa=Iestyn Carpenter, IFI=Ian Flux, IT=Ian Thirlwell, JAN=John Norton, JPol=John Poland, JTM=Jez T Martin, JVi=Julia Vinton, JdS=Jane da Santos, JoHe=Josh Hedley, Kwa=Keith Waldron, LPe=Lyn Peterson,

MFi=Maureen Fidkin, MPa=Mary Parker, MR=Martin Rand, MWR=Mike Rowe, MWh=M. Whyte, MaW=Margaret Wonham, NWA=Nick Aston, PAB=Phil Budd, PF=Pete Flood, PhSm=Phil Smith, RFC=Richard Coomber, RHWa=Robert H Wardell, RMW=Robin Walls, RR=Rachel Remnant, RSh=Robert Sharp, SCurs=Simon Curson, SDA=Sarah Davis, ST=Sam Thomas, Swe=Sarah West, TCGR=Tim Rich, THa=Toby Hart, TN=Tristan Norton.

NN *Abies nordmanniana* (Caucasian Fir): Wecock Wood, SU6901 1188; 22 Apr 2024; RHWa. **1st for SU61.**

NN *Acanthus mollis* (Bear's-breech): Stakes Coppice Remnant 1, SU6824 0865; 31 Mar 2024; RHWa. Hurst Wood, Havant, SU6951 0991; 11 Apr 2024; RHWa. Beech Wood Strip 3, SU6964 0996; 16 Apr 2024; RHWa. **1st for SU60.**

NN *Acer cappadocicum* (Cappadocian Maple): Tempest Avenue NW verge Hornbeam row, SU6943 0958; 16 Apr 2024; RHWa. Tempest Avenue SE verge ditch wood, SU6958 0985; 16 Apr 2024; RHWa. **1st for SU60.**

NN *Acer negundo* (Ashleaf Maple): Tempest Av opposite Tesco Express, SU6983 1021; 18 Apr 2024; RHWa. **1st for SU61.**

NN *Achillea ligustica* (Southern Yarrow): Boscombe/Southbourne Overcliff, SZ1291; 11 May 2024; MR. Hampshire Flora Group recording day: small plants in paving cracks. **1st for VC.**

NN *Aesculus carnea* (Red Horse-chestnut): Titchfield 1 km north, SU539 061; 05 Jan 2024; AHP, EJC. **1st for SU50.**

***NA *Agrimonia procera* (Fragrant Agrimony):** Linford Bottom, SU18146 07561; 21 Jul 2024; MR. **1st for SU10Y.**

NA *Agrostis capillaris* × *castellana* = *A.* × *fouilladeana* Corhampton Golf Course, SU5852 1959; 03 Sep 2024; ASt. Microscopic investigation. Narrow leaves, Sterile florets, large open panicle, ligule intermediate, both parents present. Specimen. **1st for VC.**

NN *Agrostis castellana* (Highland Bent): Corhampton Golf Course, SU5875 1959; 03 Sep 2024; ASt. Microscopic examination, hairs on terminal lemma, panicle partially open, leaves narrow. **1st for SU51.**

NA *Agrostis gigantea* (Black Bent): Inchmery, SZ4398; 18 Jul 2024; MR. **1st for SZ49 since 1997.**

IN *Allium paradoxum* (Few-flowered Garlic): Stakes Coppice Remnant 1, SU6825 0866; 31 Mar 2024; RHWa. Hurst Wood, Havant, SU6925 0954; 11 Apr 2024; RHWa. **1st for SU60.**

***NN *Allium schoenoprasum* (Chives):** Bishopstoke, Eastleigh, SU4686 1983; 17 May 2024; **DHub. 1st for SU41.** Hilsea Lines - Compartment 1 (Lido) - Bus depot, SU6540 0433; 01 Jun 2024; **RHWa. 1st for SU60M since 1990.** S6b Southbourne Seafront Transect-BC Dorset Branch, SZ141 912; 06 Apr 2024; **LPe. 1st for SZ19K.**

NN *Allium subhirsutum* (Hairy Garlic): Wecock Common NW Bridlepath - Partridge Gardens, SU6795 1178; 24 Apr 2024; **RHWa. 1st for SU61.**

NN *Alnus cordata* (Italian Alder): Rockbourne, SU1129 1818; 26 Aug 2024; **MWR.** Edge of grass field near gardens, SU 1129 1818. **1st for SU11.**

NN *Amaranthus blitoides* (Prostrate Pigweed): Winchester Cathedral Close, SU4816 2922; 07 Sep 2024; **ASt.** Photo, in flint surrounding grassed area used by Christmas Market. **1st for SU42.**

NN *Amaranthus blitum* (Guernsey Pigweed): Beachlands, Hayling Island, SZ7139 9891; 31 Jul 2024; **ST.** Frequent along curb of Sea Front road. **1st for SZ79.**

NN *Amaranthus retroflexus* (Common Amaranth): Corhampton Golf Course, SU592 197; 03 Sep 2024; **ASt.** **1st for SU51 since 1999.**

IN *Amelanchier lamarckii* (Juneberry): Staunton Road, SU7105 0665; 10 Jun 2024; **RHWa. 1st for SU70.**

NN *Ammi majus* (Bullwort): Mengham Park, Hayling Island, SZ7279 9876; 26 Apr 2024; **ST.** A couple of large plants on recently disturbed bank. **1st for SZ79.**

***NA *Ammophila arenaria* (Marram):** Hurst Spit, SZ30903 90005; 29 Aug 2024; **MR, RFC, MFi. 1st for SZ39.**

NN *Anemanthele lessoniana* (Pheasant's-tail): Winchester Cathedral (Deanery Book Stall), SU4819 2916; 07 Sep 2024; **ASt. 1st for SU42.** Tipner Park & Ride, SU6420 0330; 21 May 2024; **RHWa, JAN.** Gundrymoor Wood W - College Road, SU6891 0763; 09 May 2024; **RHWa. 1st for SU60.**

***NN *Anisantha madritensis* (Compact Brome):** Nursling Industrial Estate (Majestic Road), SU3680 1546; 27 Jul 2024; **MWR.** Roadside. Numerous plants, SU 3680 1546. **1st for SU31S.**

NN *Barbarea verna* (American Winter-cress): Harts Farm Way Landfill, SU7017 0569; 16 Jun 2024; **RHWa. 1st for SU70 since 1999.**

NN *Berberis darwinii* (Darwin's Barberrry): Beech Wood West, SU6961 0954; 08 Apr 2024; **RHWa. 1st for SU60 since 1998.** Westbrook Farm POS, SU6994 1028; 18 Apr 2024; **RHWa. 1st for SU61.**

NN *Berberis julianae* (Chinese Barberrry): Westbrook Farm POS, SU6994 1028; 18 Apr 2024; **RHWa. 1st for SU61.**

NN *Berberis thunbergii* (Thunberg's Barberrry): Queen's Inclosure Primary School footpath, SU6961 1019; 16 Apr 2024; **RHWa. 1st for SU61.**

NN *Bistorta amplexicaulis* (Red Bistort): Southwick 2km ESE, SU6407; 19 Jul 2024; **AHP, EJC.** Garden throw-out?. **1st for SU60.**

***NA *Bistorta officinalis* (Common Bistort):** Winsor, SU3155 1426; 01 May 2024; **MWR.** Roadside by garden,

Winsor Road, SU 3155 1426, in dense vegetation. **1st for SU31.** Dodwell Lane, Bursledon, SU4893 1086; 16 Apr 2024; **PAB. 1st for SU41V.**

NA *Brassica rapa* (Turnip): Rushington, SU3593 1254; 25 Jun 2024; **MWR.** 1 plant by stream, SU 3593 1254. Presumably ssp. *campestris*. **1st for SU31 since 1999.**

***NA *Briza media* (Quaking-grass):** Bransgore churchyard, SZ19193 97469; 14 May 2024; **MR. 1st for SZ19Y.**

***NA *Bromus hordeaceus* subsp. *ferronii* (Least Soft-brome):** Hurst Spit, SZ31443 89790; 29 Aug 2024; **MR. 1st for SZ38E.**

***NA *Bromus secalinus* (Rye Brome):** Southwick 1 km NE, SU6309; 24 Jul 2024; **AHP, EJC. 1st for SU60J.** Havant Rugby Football Club Playing Fields, SU7072 0718; 10 Jun 2024; **RHWa. 1st for SU70D.**

NN *Buddleja davidii* × *globosa* = *B. ×weyeriana* (Weyer's Butterfly-bush): Bound Lane, SZ7243 9890; 14 Sep 2024; **RHWa. 1st for SZ79.**

***NA *Butomus umbellatus* (Flowering-rush):** Christchurch (NW side), SZ1567 9356; 21 Jul 2024; **MWR.** Several plants by river, SZ 1567 9356. **1st for SZ19L since 1978.**

NA *Callitriche brutia* subsp. *brutia* Bramshaw Telegraph area, SU2251 1690; 17 May 2024; **MWR.** Fruits abundant, with stalk 1, 1, 4, 4, 4, 5mm. Ssp. *brutia*, abundant, wet hollow/pond, heath, SU 2251 1690. **1st for SU21I since 1991.*

NN *Camassia leichtlinii* Perseus Place, SU6847 0718; 09 May 2024; **RHWa. Numerous individuals beneath street tree near to church - planted?. **1st for SU60.****

***NA *Campanula rotundifolia* (Harebell):** Linford Bottom, SU18562 07450; 21 Jul 2024; **MR. 1st for SU10Y since 1997.** Beaulieu Road Station 1km north, SU3407; 01 Sep 2024; **AHP, EJC. 1st for SU30N.**

NN *Capsella rubella* (Pink Shepherd's-purse): Fordingbridge (Horseport area), SU1507 1409; 24 Apr 2024; **MWR.** 1 plant, base of signpost, roadside, Ringwood Road, SU 1507 1409. Fordingbridge (Horseport area), SU1501 1492; 24 Apr 2024; **MWR.** Several plants, roadside, Salisbury Road, SU 1501 1492, and elsewhere in this road. **1st for SU11.** Keyhaven., SZ3067 9154; 19 Apr 2024; **MWR.** Abundant along roadside, SZ 3067 9154, almost exclusively around dragon's teeth posts. **1st for SZ39.** Lepe, SZ44896 98616; 25 Apr 2024; **MR, MPa. 1st for SZ49.**

NA *Cardamine amara* (Large Bitter-cress): Beaulieu North Gate 1 km north, SU3805; 21 Aug 2024; **AHP, EJC. 1st for SU30 since 1999.**

NN *Cardamine corymbosa* (New Zealand Bitter-cress): Dobbies Garden Centre, Barton's Road, Havant, SU73032 07750; 10 Jun 2024; **ST.** Present in pots. **1st for SU70.**

NN *Cardamine occulta* (Asian Wavy Bitter-cress): Dobbies Garden Centre, Barton's Road, Havant, SU73007 07751; 10 Jun 2024; **ST.** Abundant in pots. **1st for VC.**

***NA *Carex acuta* (Slender Tufted-sedge):** Near Spittals Farm, NW of Fordingbridge, SU1386 1582; 05 Jun 2024; **MWR.** Small quantity at SU 1386 1582. **1st for SU11H.** Hengistbury Head (Wick Meads North), SZ1592; 30 May 2024; **RSh. 1st for SZ19L since ?1990s.**

****NA *Carex divisa* (Divided Sedge):** Marchwood (E side), SU3973 1059; 09 Jun 2024; MWR. Dense patch, 8×2 m, roadside, Cracknore Hard, SU 3973 1059. **1st for SU31V since 1997.** Salterns area, SU5501; 04 May 2024; MaW. **1st for SU50K.**

***NA *Carex echinata* (Star Sedge):** Lord's Oak area, SU2617; 31 Jul 2024; MWR. **1st for SU21T since 1998.**

IN *Carpobrotus edulis* (Hottentot-fig): Netley Shore, Southampton, SU455 082; 10 Mar 2024; PAB. **1st for SU40.**

NN *Centaurea montana* (Perennial Cornflower): Rockbourne, SU1140 1817; 26 Aug 2024; MWR. 1 plant by track by garden, SU 1140 1817. **1st for SU11.**

***NA *Centaureum pulchellum* (Lesser Centaury):** Beaulieu Road Station 2km NE, SU3607; 28 Aug 2024; AHP, EJC. **1st for SU30T.**

****NA *Cephalanthera damasonium* (White Helleborine):** IBM Lakeside, SU6442 0529; 18 May 2024; AFu. **1st for SU60.** Idsworth north east SU75580 14595; 15 May 2024; AHP, EJC. SU7558014595. One flowering spike in grassy road verge. **1st for SU71M.**

***NA *Cerastium diffusum* (Sea Mouse-ear):** Bramshaw Telegraph area, SU2233 1697; 17 May 2024; MWR. Short grass, roadside, B3080, SU 2233 1697. **1st for SU21I since 1991.** Nomansland, SU2536 1737; 21 Apr 2024; MWR. Short grass, roadside, Forest Road (vc 11 side), SU 2536 1737. **1st for SU21N since 1991.** Stoney Cross, SU2608 1118; 04 May 2024; MWR. Short grass, roadside, SU 2608 1118. **1st for SU21Q since ?1990s.** Near Minstead (Mill Lane area), SU2962 1050; 07 Apr 2024; MWR. Rather bare roadside, Lyndhurst Road, SU 2962 1050. **1st for SU21V since 1991.**

NN *Ceratochloa carinata* (California Brome): Ibsley (W side), SU1484 0930; 10 Aug 2024; MWR. Lemma with awns 8mm (n=3). Roadside, Salisbury Road (A338), SU 1484 0930. **1st for SU10.**

NA *Chaenorhinum minus* (Small Toadflax): Emsworth (Kerbside gutter), SU7383 0583; 31 May 2024; FMo. **1st for SU70.**

NN *Chenopodium pratericola* Southampton, SU4211; 11 Oct 2024; TCGR. Nice keeled tepals. **1st for VC.**

****NA *Cichorium intybus* (Chicory):** Havant Civic Plaza, SU716 069; 01 May 2024; TN. **1st for SU70D since ?1990s.** Purewell, SZ1605 9316; 30 Apr 2024; MWR. 5 plants, roadside, Christchurch Bypass (A35), SZ 1605 9316. **1st for SZ19R since ?1990s.**

***NA *Cirsium dissectum* (Meadow Thistle):** Ashley Hole area, SU2015; 02 Jun 2024; MWR. **1st for SU21C since ?1990s.**

NN *Cirsium rivulare* (Brook Thistle): Southampton Hospital (Maggies, landscaped a few years ago), SU3985 1474; 21 May 2024; ASt det. MR. Photo, stems bare, unwinged, no spines, flowers mostly solitary, leaves deeply divided. **1st for VC.**

NN *Clematis montana* (Himalayan Clematis): Fielders Park, SU6754 0834; 13 May 2024; RHWa. Tempest Avenue, SU6961 0993; 16 Apr 2024; RHWa. **1st for SU60.**

NA *Comarum palustre Hinchelsea Bottom (Hinchelsea Bog), SU2700; 03 Jul 2024; RSh. **1st for SU20Q.**

NA *Convallaria majalis* (Lily-of-the-valley): Inhurst Wood Strip footpath, SU6914 0955; 16 Apr 2024; RHWa. **1st for SU60.**

NN *Cornus sanguinea* subsp. *australis* Ibsley (W side), SU1496 0932; 10 Aug 2024; MWR. Roadside hedge opposite garden, Mockbeggar Lane. **1st for SU10.** N of Woodgreen, SU1727 1809; 18 Jul 2024; MWR. Roadside hedge, Hale Road. **1st for SU11.**

NN *Cotoneaster frigidus* × *salicifolius* = *C.* × *watereri* (Waterer's cotoneaster): Queen's Inclosure Primary School footpath, SU6970 1015; 16 Apr 2024; RHWa. Tempest Av opposite Tesco Express, SU6985 1028; 18 Apr 2024; RHWa. **1st for SU61.**

NN *Cotoneaster salicifolius* (Willow-leaved Cotoneaster): Nursling, SU3774 1675; 04 Sep 2024; MWR. 2 bushes, roadside, Balmoral Way, SU 3774 1675. **1st for SU31 since 1985.** Havant Rugby Football Club Playing Fields, SU7077 0683; 10 Jun 2024; RHWa. Bridge Road, SU7470 0612; 01 Oct 2024; RHWa. **1st for SU70.**

NN *Cotoneaster sternianus* (Stern's cotoneaster): Stoney Cross Plain, SU2582 1177; 23 Aug 2024; MWR. Roadside hedge, A31, SU 2582 1177. Stoney Cross, SU2659 1193; 04 May 2024; MWR. Hedge by footpath near A31, SU 2659 1193. **1st for SU21.**

IN *Cotula sessilis* (Jo-jo-weed): Lepe car park, SZ45207 98596; 31 May 2024; MR. **1st for SZ49.**

***NA *Crassula tillaea* (Mossy Stonecrop):** Duncombe Lodge, SU123 062; 25 May 2024; PhSm. **1st for SU10I.** Meyrick Park, SZ081 921; 23 May 2024; RSh. **1st for SZ09W.**

NN *Crataegus crus-galli* (Cockspurthorn): Ocknell Plain (Part of ex RAF Stoney Cross), SU246 125; 04 Oct 2024; CC. Possibly a hybrid. At SU24581 12341 another at SU 24617 12523. **1st for SU21.**

***NA *Crataegus laevigata* (Midland Hawthorn):** Purbrook Heath Play Area, SU6703 0778; 23 May 2024; RHWa. **1st for SU60T since ?1990s.** Harts Farm Way Landfill, SU7015 0564; 16 Jun 2024; RHWa. **1st for SU70.**

NN *Crataegus persimilis* (Broad-leaved Cockspurthorn): Beachlands N - Opposite Staunton Avenue, SZ7089 9896; 17 May 2024; RHWa. **1st for SZ79.**

***NA *Crepis biennis* (Rough Hawk's-beard):** Eagle Avenue underpass, SU6817 1169; 24 Apr 2024; RHWa. **1st for SU61V.**

NN *Crocus neapolitanus* × *tommasinianus* Shedfield Churchyard, SU561 132; 24 Feb 2024; MR. **1st for VC.**

NN *Crocus tommasinianus* (Early Crocus): Hill Head south, SU5401; 19 Feb 2024; AHP, EJC. Lee-On-The-Solent north west, SU5501; 12 Feb 2024; AHP, EJC. **1st for SU50.**

NN *Cupressus macrocarpa* (Monterey Cypress): Jubilee Park, SU6797 1024; 18 Apr 2024; RHWa. Park Lane N of A3(M), SU6993 1003; 18 Apr 2024; RHWa. **1st for SU61.**

NN *Cupressus* × *leylandii* (Leyland Cypress): Titchfield, SU5305; 14 Apr 2024; MR, MPa, EJC, JAN. **1st for SU50.**

NN *Cyclamen graecum* (Greek Cyclamen): Titchfield, SU5388 0566; 14 Apr 2024; MR, MPa, EJC, JAN. **1st for SU50.**

***NA *Cynoglossum officinale* (Hound's-tongue):** South Holt, SU7417 1300; 18 May 2024; MR & HFG. **1st for SU71L since 1987.**

NN *Cyrtomium falcatum* (House Holly-fern): Stubbington north / Crofton, SU5523 0418; 05 Feb 2024; AHP, EJC. One plant in bank of stream. Voucher specimen with AP. **1st for SU50.**

NA *Dactylorhiza incarnata* subsp. *pulchella Fort Bog, SU33478 08194; 29 May 2024; MR. **1st for SU30J since 1984.**

NA *Deschampsia cespitosa* subsp. *parviflora* (Small-flowered Hair-grass): Linford Bottom, SU18395 07846; 21 Jul 2024; MR. **1st for SU10 since 1997.**

NN *Deutzia scabra* (Deutzia): Fielders Park, SU6755 0818; 13 May 2024; RHWa. **1st for SU60.** Bridge Road, SU7472 0612; 01 Oct 2024; RHWa. **1st for SU70.**

***NN *Digitaria ischaemum* (Smooth Finger-grass):** Barnes Lane (Pavement curb), SZ289 918; 12 Sep 2024; RFC. **1st for SZ29V.**

NN *Elaeagnus commutata* (Silver-berry): S. Shore - Hayling Island Beach - Coastguard - Bound Lane CP, SZ724 986; 03 May 2024; RHWa. Probably planted. **1st for SZ79.**

***NA *Eleocharis multicaulis* (Many-stalked Spike-rush):** Ashley Hole area, SU2009 1552; 02 Jun 2024; MWR. **1st for SU21C since ?1990s.**

***NA *Eleocharis uniglumis* (Slender Spike-rush):** Hinchelsea Bottom (Setthorns), SU2600; 27 Jun 2024; RSh. **1st for SU20Q.** Beaulieu Road Station 1 km SW., SU3405; 15 Aug 2024; AHP, EJC. **1st for SU30M.** Beaulieu North Gate 1 km north, SU3805; 21 Aug 2024; AHP, EJC. **1st for SU30X.**

***NA *Elymus junceiformis* (Sand Couch):** Inchmery, SZ43771 98600; 18 Jul 2024; MR. **1st for SZ49J since 1963.**

***NA *Epilobium lanceolatum* (Spear-leaved Willowherb):** Near Meyrick Park (Leven Avenue), SZ0753 9214; 07 Jun 2024; MWR. 2 plants at SZ 0753 9214. Near Pug's Hole (Alyth Road), SZ0739 9276; 07 Jun 2024; MWR. 1 plant at SZ 0739 9276. **1st for SZ09R.** King's Park, SZ1179 9249; 06 Jul 2024; MWR. 1 plant, SZ 1179 9249. **1st for SZ19B.** Lower Pennington, SZ316 939; 23 Jun 2024; MWR. Several plants at SZ 3164 9396, and several at SZ 3164 9395. **1st for SZ39B.**

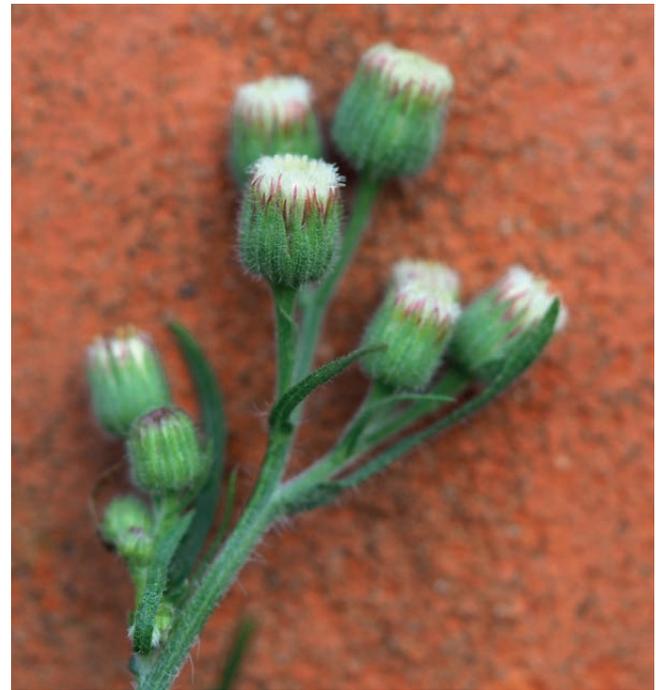
NA *Epilobium parviflorum* × *tetragonum* = *E.* × *palatinum* Southwick 2 km ENE, SU6409; 10 Jul 2024; AHP, EJC. **1st for SU60.**

NA *Epilobium tetragonum* × *ciliatum* = *E.* × *mentiens* Southwick 2 km ENE, SU6409; 10 Jul 2024; AHP, EJC. **1st for SU60.**

NN *Epimedium alpinum* (Barren-wort): St Stephen's, Sparsholt (Grassy bank at western entrance...), SU4350 3120; 14 Apr 2024; TN. Small patch, flowering. Presumably planted nearby but appears to have colonised low grassy bank. **1st for VC.**

NN *Erigeron annuus* (Tall Fleabane): Lymington, SZ31552 94769; 02 Jan 2024; GH conf. MR. **1st for SZ39.**

NN *Erigeron bonariensis* New Lane Havant, SU72626 07607; 30 Aug 2024; TN. Several plants by metal fence. New Lane Havant, SU72620 07596; 30 Aug 2024; TN. Single plant at edge of footpath. Braishfield Road Havant, SU72100 07761; 12 Sep 2024; TN. Single plant on pavement at base of wall, another on paving on front driveway. **1st for SU70.**



Argentine Fleabane *Erigeron bonariensis*, Havant.
Tristan Norton

NN *Erigeron floribundus* (Bilbao's Fleabane): Hurst Spit, SZ31895 89915; 29 Aug 2024; MR. **1st for SZ38.**

NN *Erigeron sumatrensis* Rockbourne, SU1118; 26 Aug 2024; MWR. **1st for SU11.**

****NA *Eriophorum angustifolium* (Common Cottongrass):** Lord's Oak area, SU2617; 31 Jul 2024; MWR. **1st for SU21T since 1998.**

***NA *Eriophorum vaginatum* (Hare's-tail Cottongrass):** Whiteshoot Bottom, SU22254 14023; 13 Jun 2024; MR, MPa, SWe. Upper edge of seepage mire, with *E. angustifolium*. **1st for SU21H since 1964.**

***NA *Erodium moschatum* (Musk Stork's-bill):** Titchfield, SU535 058; 14 Apr 2024; MR, MPa, EJC, JAN. **1st for SU50H.** Wesermarsch Road, SU6907 1159; 22 Apr 2024; RHWa. **1st for SU61V.** Hayling Billy north, SU7103; 21 Oct 2024; AHP, EJC. **1st for SU70B.**

NN *Eryngium planum* (Blue Eryngo): Winchester Cathedral, Paddock, SU4827 2928; 08 Aug 2024; ASt, JVi. One non-flowering rosette near door, nearby builder bag contained Blue Eryngo. Flowers from old floral display, Photo. **1st for SU42.**

NN *Euphorbia amygdaloides* subsp. *robbiae* N of Woodgreen, SU1788 1869; 18 Jul 2024; MWR. By

churchyard, SU 1788 1869. **1st for SU11.** Johnston's Coppice (Gundymoor Wood remnant), SU6915 0768; 07 May 2024; RHWa. Hurst Wood, Havant, SU6928 0952; 11 Apr 2024; RHWa. Inhurst Wood Strip footpath, SU6926 0974; 16 Apr 2024; RHWa. **1st for SU60 since 1991.**

NN *Euphorbia dulcis* (Sweet Spurge): School Lane, Bursledon, SU4816 0996; 27 May 2024; PAB. **1st for VC.** Oakmount Road, Fryern Hill, Chandler's Ford, SU4406 2108; 27 Jun 2024; MR. **1st for SU42.**

***NN *Euphorbia esula* (Leafy Spurge):** Soberton area (Road verge, long Road), SU624 172; 15 Apr 2024; NWA. **1st for SU61.**

NN *Euphorbia maculata* (Spotted Spurge): Station Road, Havant, SZ71329 99568; 24 Jul 2024; TN. Widespread in paving and kerb gaps outside Tesco entrance. Hayling Island, Station Road, SZ71299 99531; 04 Jul 2024; ST. Growing between paving outside Tesco. **1st for SZ79.**

NN *Euphorbia oblongata* (Balkan Spurge): Gosport, SZ601 987; 01 Jan 2024; DRA, EJC, JAN. Large self-seeding patch in churchyard. **1st for SZ69.**

***NA *Euphorbia paralias* (Sea Spurge):** Park Shore (Top of the beach), SZ408 964; 14 Sep 2024; CC. **1st for SZ49D.**

NN *Euphorbia prostrata* (Prostrate Sandmat): Brambridge Garden Centre, SU46705 21976; 15 Sep 2024; TN. **1st for SU42.** Orchard Road, SZ7249 9886; 14 Sep 2024; RHWa. Covering large areas of pavement. **1st for VC.**

NN *Euphorbia stricta Farley Mount Country Park (W end of Forest View car park), SU4163 2918; 08 Jun 2024; TN. ID confirmed from fruit matured at home from sample. One plant within dense scrubby edge to car park. **1st for SU42E.**

****NA *Euphrasia confusa* (Confused Eyebright):** Rhinefield Acres (Duck Hole Bog (and Wilverley Plain)), SU2502; 16 Aug 2024; RSh. Samples keyed out using Metherell and Rumsey. **1st for SU20L.**



Prostrate Sandmat *Euphorbia prostrata*, Brambridge.
Tristan Norton

***NA *Euphrasia micrantha* (Slender Eyebright):** N of Matley Wood, SU32963 07733; 29 May 2024; MR. **1st for SU30I since 1958.** Deerleap, SU34583 08573; 26 May 2024; MR. **1st for SU30P.** Beaulieu North Gate 1 km north, SU3805; 21 Aug 2024; AHP, EJC. **1st for SU30X.** N of Boundway, SZ2554 9856; 26 May 2024; MWR. Both leaves and flowers very typical. SZ 2554 9856, with another *Euphrasia* taxon nearby. **1st for SZ29P since 1963.**

***NA *Euphrasia nemorosa* (Common Eyebright):** Corhampton Golf Course, SU5819; 06 Aug 2024; ASt, Kwa, Ica, IFI. **1st for SU51Z since ?1990s.**

***NA *Euphrasia tetraquetra* (Western Eyebright):** Hinchelsea Bottom (Setthorns), SU268 003; 27 Jun 2024; RSh. Keyed with Handbook BSBI#18. **1st for SU20Q.**

***NA *Festuca filiformis* (Fine-leaved Sheep's-fescue):** Ashley Hole area, SU2049 1557; 02 Jun 2024; MWR. **1st for SU21C since ?1990s.**

NA *Festuca rubra* subsp. *juncea Hurst Spit, SZ31732 90052; 29 Aug 2024; MR. Conforms to *F. rubra* subsp. *pruinosa* (Hackel) Piper, as described in Kerguelen & Plonka, 'Les Festuca de la Flore de France' (1989) and briefly mentioned in Cope & Gray, 'Grasses of the British Isles' (2009). Forming an open sward on level stabilised shingle over sand. **1st for SZ39A.**

***NA *Filago germanica* (Common Cudweed)** Stubbington, SU545 048; 01 Jul 2024; ALRo. Stubbington, SU546 048; 01 Jul 2024; ALRo. Stubbington, SU547 047; 01 Jul 2024; ALRo; etc. **1st for SU50M.**

NN *Fraxinus angustifolia* (Narrow-leaved Ash): Purbrook Heath S, SU6674 0772; 21 May 2024; RHWa, JAN. **1st for SU60.**

***NA *Fumaria bastardii* (Tall Ramping-fumitory):** Brook Farm B West, SU7357 0543; 01 Oct 2024; RHWa. **1st for SU70H.**

NA *Fumaria capreolata* (White Ramping-fumitory): Pug's Hole area, SZ0759 9271; 07 Jun 2024; MWR. Disturbed soil, roadside, Glenferness Avenue, SZ 0759 9271. **1st for SZ09.**

NN *Galanthus elwesii* (Greater Snowdrop): Shedfield Churchyard, SU561 132; 24 Feb 2024; MR. **1st for SU51.**

NN *Galanthus woronowii* (Green Snowdrop): Bishops Waltham churchyard, SU555 176; 24 Feb 2024; MR. **1st for SU51.**

NN *Galega officinalis* (Goat's-rue): Bracklesham Road, SZ7485 9862; 14 Sep 2024; RHWa. **1st for SZ79.**

***NA *Galium constrictum* (Slender Marsh-bedstraw):** Cowleys Heath, SU41448 02398; 07 Jun 2024; MR. **1st for SU40B since 1987.**

NN *Galium murale* (Small Goosegrass): Emsworth Rd Carpark, Lymington (at base of tree between ro...), SZ3228 9559; 06 Jun 2024; RFC det. JAN. Similar situation to plants at Port Solent. **1st for SZ39.**

NA *Galium palustre* subsp. *elongatum* (Great Marsh-bedstraw): Nursling Industrial Estate area, SU3615; 27 Jul 2024; MWR. Leaves 23×5, 26×4, 27×5 mm corolla 3.7, 4.0, 4.2 mm (but pedicels in flower. **1st for SU31 since 1997.** Lepe, SZ44994 98781; 25 Apr 2024; MR, MPa. Lepe, SZ44992 98787; 31 May 2024; MR. **1st for SZ49.**

NN *Geranium phaeum* (Dusky Crane's-bill): Titchfield Common, SU5106; 25 Mar 2024; AHP, EJC. **1st for SU50.**

NA *Geranium purpureum* (Little-Robin): Boscombe/Southbourne Overcliff BoB, SZ1191; 11 May 2024; SDa. Hampshire Flora Group recording day. **1st for SZ19.**

NN *Geranium pyrenaicum* 'Bill Wallis' Michelmersh, SU34604 26395; 22 Apr 2024; MR, MPa. **1st for SU32.** Titchfield, SU5305; 14 Apr 2024; MR, MPa, EJC, JAN. **1st for SU50.**

***NA *Glebionis segetum* (Corn Marigold):** Lower Buckland, Undershore, Walhampton, SZ3228 9632; 22 Jan 2024; MWR. 1 plant, edge of allotments by Marsh Lane (B3054), SZ 3228 9632. **1st for SZ39I since 1997.**

NA *Glyceria fluitans* × *notata* = *G.* × *pedicellata* (Hybrid Sweet-grass): Lower Test Nature Reserve, SU3636 1468; 14 May 2024; MWR. By Test Boardwalk, wet meadow, SU 3636 1468. **1st for SU31 since 1969.**

NA *Glyceria notata* (Plicate Sweet-grass): Christchurch (NW side), SZ1573 9393; 21 Jul 2024; MWR. Abundant, water meadow, SZ 1573 9393. **1st for SZ19 since 1936.**

NN *Griselinia littoralis* (New Zealand Broadleaf): Queen's Inclosure Primary School footpath, SU6959 1024; 16 Apr 2024; RHWa. Yoells Copse LNR, SU6882 1281; 29 Apr 2024; RHWa. **1st for SU61.**

NN *Gypsophila elegans* (Annual Baby's-breath): Orchard Road, SZ7245 9887; 14 Sep 2024; RHWa. **1st for SZ79.**

***NA *Helianthemum nummularium* (Common Rock-rose):** Yew Hill (Parallel trackways), SU455 265; 03 Jul 2024; ASt. **1st for SU42N since ?1990s.**

NN *Helianthus pauciflorus* × *tuberosus* = *H.* × *laetiflorus* (Perennial Sunflower): Titchfield Canal (Hammond's Bridge), SU535 032; 05 Sep 2024; DPe. Large yellow flowers, twelve petals, alternate dark green lanceolate leaves. Several plants growing by path west of Hammond's Bridge over Titchfield Canal. **1st for SU50.**

NN *Helianthus tuberosus* (Jerusalem Artichoke): Wyborn Close, SZ7245 9878; 14 Sep 2024; RHWa. **1st for SZ79.**

***NA *Helleborus foetidus* (Stinking Hellebore):** Rockbourne, SU1138 1835; 26 Aug 2024; MWR. 1 plant, roadside, junction of Rockbourne Road and New Road, SU 1138 1835. **1st for SU11E.** Po15 6nl, SU55289 07083; 02 Jan 2024; JdS. **1st for SU50N.**

NN *Helleborus orientalis* (Lenten-rose): Wecock Wood, SU6895 1186; 22 Apr 2024; RHWa. **1st for SU61.**

****NA *Helosciadium inundatum* (Lesser Marshwort):** Lepe, SZ44992 98796; 31 May 2024; MR. **1st for SZ49P.**

NN *Hemerocallis fulva* (Orange Day-lily): Penjar Avenue, SU6726 0778; 15 May 2024; RHWa. Friendstaple Road section 2, SU6904 0836; 02 Apr 2024; RHWa. **1st for SU60.**

***NN *Hippophae rhamnoides* (Sea-buckthorn):** Bridge Road, SU7472 0608; 01 Oct 2024; RHWa. **1st for SU70N.**

NN *Hosta fortunei* Newlease Copse, Havant SINC, SU6839 0815; 29 Mar 2024; RHWa. **1st for VC.**

NN *Hydrangea macrophylla* (Hydrangea): Nevill's Park - Woodsedge, SU6936 0858; 06 Apr 2024; RHWa. **1st for SU60.**

****NA *Hydrocharis morsus-ranae* (Frogbit):** Twyford Waterworks, Pond, SU4939 2482; 20 Jul 2024; ASt. **1st for SU42.**

NN *Hylotelephium* 'Herbstfreude' (Autumn Stonecrop): Marchwood (E side), SU3923 1050; 09 Jun 2024; MWR. Roadside opposite gardens, Cracknore Hard Lane, SU 3923 1050. **1st for SU31.**

***NA *Hylotelephium telephium* (Orpine):** Michelmersh, SU34992 26105; 22 Apr 2024; MR, MPa. Michelmersh, E of (Manor Farm area), SU34992 26042; 22 Apr 2024; MR, MPa. **1st for SU32N.**

NN *Hypericum hircinum* (Stinking Tutsan): Fritham Cross area, SU2399 1066; 29 Jun 2024; MWR. By track near road (A31), SU 2399 1066. **1st for SU21 since 1938.**

NA *Hypericum maculatum* subsp. *obtusiusculum* Brook Farm B West, SU7357 0544; 01 Oct 2024; RHWa. **1st for SU70.**

NN *Iris spuria* (Blue Iris): S6b Southbourne Seafront Transect-BC Dorset Branch, SZ141 912; 06 Apr 2024; LPe. **1st for VC.**

***NA *Isolepis cernua* (Slender Club-rush):** Fritham Cross area, SU2394 1060; 29 Jun 2024; MWR. Nuts checked. Bare soil on damp heath, SU 2394 1060. **1st for SU21F.**

NN *Jasminum nudiflorum* (Winter Jasmine): Elizabeth Road Open Space NE, SU6830 0837; 29 Mar 2024; RHWa. Stakes Coppice Remnant 6 SINC, SU6907 0857; 02 Apr 2024; RHWa. **1st for SU60.** Queen's Inclosure Primary School footpath, SU6961 1019; 16 Apr 2024; RHWa. **1st for SU61.**

NN *Juglans regia* (Walnut): Stoney Cross Plain, SU2587 1180; 23 Aug 2024; MWR. Roadside, A31. SU 2587 1180. **1st for SU21.**

NA *Juncus conglomeratus* var. *subuliflorus* (Compact Rush): Fritham Cross area, SU2317 1049; 29 Jun 2024; MWR. Var. *subuliflorus*, wood, SU 2317 1049. S of Janesmoor Plain, SU2413 1289; 12 Jun 2024; MWR. Var. *subuliflorus*, wood, SU 2413 1289. **1st for SU21.**

NA *Juncus effusus* × *inflexus* = *J.* × *diffusus* (Driedol Brwynen): James's Copse Trackway, SU6821 1235; 22 Apr 2024; RHWa. **1st for SU61.** Yoells Copse LNR, SU6896 1286; 29 Apr 2024; RHWa. **1st for SU61.**

***NA *Knautia arvensis* (Field Scabious):** Rushington, SU3596 1285; 25 Jun 2024; MWR. 2 plants, roadside, Rumbidge Street, SU 3596 1285, probably sown. **1st for SU31L.** Stubbington south, SU5502; 04 Jul 2024; AHP, EJC. **1st for SU50L.** Tipner Ranges North, SU6394 0334; 14 Aug 2024; RHWa. **1st for SU60G.**

NN *Kniphofia uvaria* (Red-hot-poker): Farlington Marshes car parks, SU6780 0437; 16 Aug 2024; RHWa. **1st for SU60.**

***NA *Lactuca virosa* (Great Lettuce):** Titchfield, SU537 055; 14 Apr 2024; MR, MPa, EJC, JAN. **1st for SU50H.**

NN *Laphangium luteoalbum Ampthill Road, Southampton, SU39711 13154; 23 Sep 2024; TN. Several plants on brick driveway. **1st for SU31W.** Universal Marina, Sarisbury, SU49214 08516; 15 Sep 2024; TN. Couple of plants. Universal Marina, Sarisbury, SU49178 08560; 15 Sep 2024; TN. Single plant on stone chippings. Universal Marina,

Sarisbury, SU49194 08558; 15 Sep 2024; TN. One large plant. **1st for SU40Z**. Shirley, Southampton, SU40345 14073; 01 Jan 2024; TN. **1st for SU41C**. Locksheath, SU504 069; 21 May 2024; IT. Photo on HFG FB site. **1st for SU50D**. Titchfield, SU539 057; 14 Apr 2024; MR, MPa, EJC, JAN. **1st for SU50H**. Stubbington, SU5554 0374; 01 Jul 2024; ALRo. **1st for SU50L**. Gosport Priddy's Hard north, SU6101; 12 Jun 2024; AHP, EJC. **1st for SU60A**. Portsdown Avenue, Drayton, SU6740 0594; 18 Sep 2024; RHWa. In front paved drive. **1st for SU60S**. VC11 South Hampshire, SZ13241 91357; 21 Oct 2024; TN. **1st for SZ19**. Arable field, Sowley Lane (Arable field edge), SZ3716 9628; 24 Jun 2024; NWA. **1st for SZ39T**. Manor Road, west side by wall, SZ71471 99239; 01 Jul 2024; ST. **1st for SZ79E**.

NN *Larix kaempferi* (Japanese Larch): Beech Wood Strip 3, SU6966 1001; 16 Apr 2024; RHWa. **1st for SU61 since 1997**.

***NA *Lemna gibba* (Fat Duckweed)**: N of Woodgreen, SU1770 1864; 18 Jul 2024; MWR. River, SU 1770 1864. **1st for SU11U since 1978**.

***NA *Lepidium campestre* (Field Pepperwort)**: Winchester Leisure Centre (Drainage swale at S end of car park.), SU4885 2845; 06 May 2024; RR. Several large patches, flowering and fruiting. Initial ID by R. Remnant, confirmed by TN after visit and sample examination, and also by Tim Rich via photos. Winchester Leisure Centre, SU48868 28569; 23 Jul 2024; TN. Several large clumps, still flowering, in SuDS channel at S edge of car park. **1st for SU42Z**.

***NA *Lepidium heterophyllum* (Smith's Pepperwort)**: Parley Manor area, SZ0973 9777; 11 May 2024; MWR. Roadside, Christchurch Road (B3073), SZ 0973 9777. **1st for SZ09Y**. Boscombe/Southbourne Overcliff BoB, SZ1291; 11 May 2024; SDa. Hampshire Flora Group recording day. **1st for SZ19F**. Ambury Lane area, SZ1825 9439; 21 May 2024; MWR. Many plants by track, Ambury Lane, SZ 1825 9439. **1st for SZ19X since ?1990s**.

NN *Leucanthemum lacustre* × *maximum* = *L. ×superbum* (Shasta Daisy): Stoney Cross Plain, SU2591 1182; 23 Aug 2024; MWR. Roadside by garden, A31, SU 2591 1182. **1st for SU21**.

***NA *Leymus arenarius* (Lyme-grass)**: Bursledon (Blundell Lane), SU492 099; 07 Jun 2024; Ast. **1st for SU40Z**.

***NA *Linaria repens* (Pale Toadflax)**: Highcliffe to Milford Cliffs, SZ2042 9306; 10 May 2024; JTM. **1st for SZ29B**.

***NA *Linum bienne* (Pale Flax)**: Bursledon, (Road verge by estuary), SU495 101; 07 Jun 2024; Ast, CCor. **1st for SU41V**.

NN *Lonicera caprifolium* (Perfoliate Honeysuckle): Yoells Copse LNR, SU6876 1295; 29 Apr 2024; RHWa. Coming over boundary fence along Western public footpath. **1st for SU61**.

NN *Lonicera japonica* (Japanese Honeysuckle): Hazleton Common LNR Centre, SU7042 1210; 26 Apr 2024; RHWa. **1st for SU71**.

***NA *Lotus subbiflorus* (Hairy Bird's-foot-trefoil)**: Lepe, SZ44863 98641; 25 Apr 2024; MR, MPa. **1st for SZ49**.

IN *Ludwigia grandiflora* (Water-primrose): Sturtmoor Pond and area, SU2711 1796; 12 Sep 2024; PF. Sturtmoor Pond and area, SU2721 1797; 12 Sep 2024; PF. Sturtmoor Pond

and area, SU2708 1800; 12 Sep 2024; PF. Sturtmoor Pond and area, SU2708 1802; 12 Sep 2024; PF. Sturtmoor Pond and area, SU2709 1804; 12 Sep 2024; PF. **1st for SU21**.

***NA *Ludwigia palustris* (Hampshire-purslane)**: Mill Lawn near Burley, SU2271 0353; 19 May 2024; SCurs. In flooded area of grassland. **1st for SU20G since 1997**.

NA *Luzula multiflora* subsp. *multiflora* Meyrick Park, SZ081 921; 23 May 2024; RSh. **1st for SZ09**.

***NA *Lysimachia minima* (Chaffweed)**: Beaulieu Road Station 2km NE, SU3671 0767; 28 Aug 2024; AHP, EJC. Ipley, SU37686 07891; 15 Jul 2024; TN. Occasional in hollows and ruts. **1st for SU30T since ?1990s**.

***NA *Lysimachia vulgaris* (Yellow Loosestrife)**: Linford Bottom, SU18629 07668; 24 May 2024; MR. **1st for SU10Y since 1997**.

***NA *Lythrum portula* (Water-purslane)**: Lord's Oak area, SU2609 1741; 31 Jul 2024; MWR. Roadside ditch, B3079, SU 2609 1741. **1st for SU21T since 1998**.

NN *Mahonia japonica* (Japanese Oregon-grape): Hilsea Lines - Compartment 1 (Lido) - West Curtain, SU6531 0433; 01 Jun 2024; RHWa. Hurstwood Area C, SU6923 0923; 11 Apr 2024; RHWa. Cleared during installation of new boundary fence panels. **1st for SU60**. Wecock Common, SU6826 1141; 24 Apr 2024; RHWa. **1st for SU61**.

NN *Mahonia × media* Beech Wood West, SU6973 0956; 08 Apr 2024; RHWa det. MR. **1st for SU60**. Park Lane N of A3(M), SU6994 1002; 18 Apr 2024; RHWa det. MR. **1st for SU61**.

NA *Malva arborea* (Tree-mallow): Wickham 1 km north, SU5712; 24 Jan 2024; AHP, EJC. **1st for SU51**.

***NA *Medicago polymorpha* (Toothed Medick)**: Keyhaven (Sea wall), SZ3056 9118; 01 Jun 2024; MWR. Fruits checked. Top edge of sea wall, SZ 3056 9118. **1st for SZ39A since 1998**.

NA *Medicago sativa* (Lucerne): B2149 Dell Piece West verge, SU7009 1247; 29 Apr 2024; RHWa. **1st for SU71 since 1995**.

NA *Mentha aquatica* × *arvensis* = *M. ×verticillata* (Whorled Mint): Southwick 1 km NE, SU6309; 24 Jul 2024; AHP, EJC. **1st for SU60 since 1960s**.

****NA *Moenchia erecta* (Upright Chickweed)**: Bramshaw Telegraph area, SU2256 1677; 17 May 2024; MWR. Short grass, roadside, Roger Penny Way (B3078), SU 2256 1677. **1st for SU21I**. Purbrook Heath W, SU6670 0776; 21 May 2024; RHWa, JAN. **1st for SU60T**.

NA *Molinia caerulea* subsp. *arundinacea* Rhinefield Acres (Duck Hole Bog (and Wilverley Plain)), SU2502; 16 Aug 2024; RSh. **1st for SU20**. Hinchelsea Bottom (Hinchelsea Bog), SU2700; 03 Jul 2024; RSh. **1st for SU20**. Wooton (Wilverly Bog), SZ2499; 29 Aug 2024; RSh. Valley Mire with *Sphagnum papillosum*. **1st for SZ29**.

NA *Montia fontana* (Blinks): Westbrook Farm POS, SU6990 1040; 18 Apr 2024; RHWa. **1st for SU61**.

NA *Montia fontana* subsp. *amporitana Beaulieu Road Station 2km NE, SU3607; 28 Aug 2024; AHP, EJC. **1st for SU30T**.

NA *Montia fontana* subsp. *chondrosperma Linford Bottom, SU18125 07259; 24 May 2024; MR. **1st for SU10Y.** Titchfield, SU535 054; 14 Apr 2024; MR, MPa, EJC, JAN. **1st for SU50H.**

IN *Myriophyllum aquaticum* (Parrot's-feather): The Queen's Inclosure, SU6935 1064; 20 Apr 2024; RHWa. **1st for SU61 since 1997.**

NN *Narcissus poeticus* (Pheasant's-eye Daffodil): Redbridge, SU3701 1383; 30 Mar 2024; MWR. Roadside opposite gardens, Test Lane, SU 3701 1383. Lee (Lee Drove area), SU3627 1849; 20 Apr 2024; MWR. 1 clump, roadside, Lee Lane, SU 3627 1849. **1st for SU31.**

NN *Narcissus poeticus* × *tazetta* = *N. × medioluteus* (Primrose-peerless): Ashfield, SU3633 1901; 20 Apr 2024; MWR. 2 clumps, roadside, Lee Lane, SU 3633 1901. **1st for SU31.**

***NA *Nardus stricta* (Mat-grass):** Beaulieu Road Station 2km NE, SU3607; 28 Aug 2024; AHP, EJC. **1st for SU30T since 1997.** Beaulieu North Gate 1km north, SU3805; 21 Aug 2024; AHP, EJC. **1st for SU30X since ?1990s.**

NN *Nigella arvensis* (Nigella): Tempest Avenue, SU6905 0929; 11 Apr 2024; RHWa. **1st for VC.**

NN *Nymphaea × marliacea* Inchmery, SZ43714 98593; 18 Jul 2024; MR. **1st for SZ49.**

****NA *Oenanthe fistulosa* (Tubular Water-dropwort):** Matley Passage (boggy flushes), SU3336 0720; 24 Jun 2024; NWA. **1st for SU30I.** Hengistbury Head (Wick Meads North), SZ1592; 30 May 2024; RSh. Wet meadows. **1st for SZ19L since ?1990s.** Inchmery, SZ44999 98798; 18 Jul 2024; MR. **1st for SZ49P.**

***NA *Oenanthe pimpinelloides* (Corky-fruited Water-dropwort):** Tilhill area, SU3062 1710; 12 Jul 2024; MWR. 1 plant, game strip, edge of pea field, SU 3062 1710. **1st for SU31D.**

NN *Oenothera biennis* (Common Evening-primrose): Johnston's Coppice (Gundymoor Wood remnant), SU6916 0770; 07 May 2024; RHWa. **1st for SU60 since 1991.**

***NA *Onobrychis viciifolia* (Sainfoin):** Tipner Interchange, SU6397 0312; 21 May 2024; RHWa, JAN. Tipner Interchange, SU6398 0309; 14 Aug 2024; RHWa. Langstone Harbour Sports Ground Car Park, SU6749 0274; 16 Jun 2024; RHWa. **1st for SU60G.**

***NA *Orobanche hederæ* (Ivy Broomrape):** Middle of St Georges Drive, SZ1903 9792; 03 Jun 2024; SCurs. **1st for SZ19Y.**

NA *Orobanche hederæ* f. *monochroa* Chilbolton Avenue, Winchester, SU46849 30320; 05 Jun 2024; TN. Dozens of plants beside footpath on western side of road, just before junction with Stockbridge Road. **1st for SU43.**

NN *Osteospermum jucundum* (Osteospermum): Eastern Road verge, SU6765 0169; 17 May 2024; RHWa. **1st for SU60.**

NN *Oxalis exilis* (Least Yellow-sorrel): Galt Road, Farlington, SU6801 0581; 18 Sep 2024; RHWa. **1st for SU60.**

NN *Parthenocissus tricuspidata* (Boston-ivy): North of Hilsea Lido, SU6507 0451; 01 Jun 2024; RHWa. **1st for SU60.**

NN *Passiflora caerulea* (Blue Passionflower): Bishops Waltham churchyard, SU555 176; 24 Feb 2024; MR. By entrance gate. **1st for SU51.** Elm Close Estate, SZ7179 9926; 14 Sep 2024; RHWa. **1st for SZ79.**

NN *Paulownia tomentosa* (Foxglove-tree): New Lane Havant, SU72602 07588; 29 Aug 2024; TN. Large seedling by green fence on E side of road. **1st for SU70.**

****NA *Pedicularis palustris* (Marsh Lousewort):** Wooton (Wilverley Bog N), SU2400; 29 Aug 2024; RSh. **1st for SU20K since 1997.**

NN *Phalaris paradoxa* (Awned Canary-grass): Tilhill area, SU3067 1711; 12 Jul 2024; MWR. Game strip, edge of pea field, SU 3067 1711. **1st for SU31.** Bushy Copse and Shotts Copse area., SZ3477 9667; 31 Aug 2024; MWR. Several clumps, waste strip at edge of arable field, SZ 3477 9667. **1st for SZ39.**

NN *Phedimus kamtschaticus* (Kamchatka Stonecrop): Tipner Park & Ride, SU6418 0318; 21 May 2024; RHWa, JAN. **1st for SU60.**

NN *Phillyrea latifolia* Titchfield, SU5305; 14 Apr 2024; MR, MPa, EJC, JAN. **1st for SU50.**

***NA *Phleum arenarium* (Sand Cat's-tail):** Highcliffe to Milford Cliffs BoC, SZ208 930; 28 Jul 2024; RPH. **1st for SZ29.**

NN *Phormium tenax* (New Zealand Flax): Inhurst Wood Strip footpath, SU6912 0953; 16 Apr 2024; RHWa. **1st for SU60.**

NN *Photinia davidiana* (Stranvaesia): Hilsea Lines - Compartment 1 (Lido) - West Curtain, SU6528 0434; 01 Jun 2024; RHWa. **1st for SU60.**

NN *Phuopsis stylosa* (Caucasian Crosswort): Bishops Waltham churchyard, SU555 176; 24 Feb 2024; MR det. JPol. By entrance gate. **1st for VC.**

***NA *Pinguicula lusitanica* (Pale Butterwort):** Ashley Hole area, SU2008 1552; 02 Jun 2024; MWR. Several plants, bog, SU 2008 1552. **1st for SU21C since ?1990s.** Whiteshoot Bottom, SU22256 13690; 13 Jun 2024; MR. **1st for SU21G since 1989.**

IN *Pinus nigra* subsp. *laricio* (Corsican Pine): Lifeboat Station Heath SINC, SZ7498 9845; 01 May 2024; RHWa. **1st for SZ79.**

IN *Pinus nigra* subsp. *nigra* (Austrian Pine): Southsea Common - Southsea Terrace, SZ6371 9910; 04 Feb 2024; RHWa. **1st for SZ69.**

NN *Pittosporum tenuifolium* (Kohuhu): Purbrook Heath N, SU6691 0782; 21 May 2024; RHWa, JAN. Newlease Copse, Havant SINC, SU6844 0821; 29 Mar 2024; RHWa. Stakeshill Coppice Remnant 1, SU6897 0907; 06 Apr 2024; RHWa. **1st for SU60.**

NN *Plagiobothrys scouleri* (White Forget-me-not): Shallow muddy depression by road to Beaulieu Heath car park, SU3581 0046; 28 Jun 2024; NWA. Beaulieu Heath, SU3578 0051; 19 Jun 2024; RFC. Hundreds in flower. Many fewer on south side of T junction as well. **1st for SU30 since 1987.**



White Forget-me-not *Plagiobothrys scouleri*, Beaulieu Airfield. *Tristan Norton*

***NA *Plantago media* (Hoary Plantain):** Nursling, SU3753 1687; 04 Sep 2024; MWR. Several plants by footpath, SU 3753 1687. **1st for SU31T.** Land East of Sandy Point SINC, SZ7504 9835; 01 May 2024; RHWa. **1st for SZ79P.**

***NA *Poa infirma* (Early Meadow-grass):** Titchfield, SU535 055; 14 Apr 2024; MR, MPa, EJC, JAN. **1st for SU50H.** Havant Civic Plaza, SU71632 06979; 01 May 2024; TN. **1st for Havant Civic Plaza, SU71596 06996; 21 Mar 2024; TN.** Occasional large patches scattered across amenity grassland surrounding Civic Plaza buildings. **1st for SU70D.**

***NA *Polycarpon tetraphyllum* (Four-leaved Allseed):** Hill Head central Seafield Park, SU5402; 26 Jun 2024; AHP, EJC. **1st for SU50L.** Botley Square (Pavement between the Coop and the Bike shop), SU5136 1302; 15 Jul 2024; CC. Pressed specimen. **1st for SU51B.** Westfield Rd., Lymington, SZ329 949; 14 Jun 2024; RFC. Found and identified by Maureen Fidkin a few days earlier. **1st for SZ39H.**

***NA *Polypogon monspeliensis* (Annual Beard-grass):** Tilhill area, SU3066 1711; 12 Jul 2024; MWR. Game strip, edge of pea field, SU 3066 1711. **1st for SU31D.** King's Park (W side), SZ1136 9234; 06 Jul 2024; MWR. Several plants, roadside, Ashley Road, SZ 1136 9234. **1st for SZ19B.**

NN *Populus trichocarpa* (Western Balsam-poplar): Rushington, SU3551 1231; 25 Jun 2024; MWR. Roadside hedge, Players Crescent, SU 3551 1231. **1st for SU31.**

***NA *Potamogeton lucens* (Shining Pondweed):** Bargates (Knapp Mill, below Lagoon intake), SZ1546 9387; 12 Sep 2024; RMW. Bargates (Knapp Mill, above Lagoon intake), SZ1545 9391; 12 Sep 2024; RMW. **1st for SZ19L since ?1980s.**

***NA *Potamogeton perfoliatus* (Perfoliate Pondweed):** Christchurch (NW side), SZ1544 9396; 21 Jul 2024; MWR. River, SZ 1544 9396. Bargates (Knapp Mill, above Lagoon intake), SZ1545 9391; 12 Sep 2024; RMW. **1st for SZ19L since 1976.**

IN *Prunus serotina* (Rum Cherry): Southwick 1 km NE, SU6347 0930; 24 Jul 2024; AHP, EJC. **1st for SU60.**

IN *Pseudosasa japonica* (Arrow Bamboo): Titchfield east, SU5405; 17 Apr 2024; AHP, EJC. **1st for SU50.** Park Wood, SU6842 1036; 20 Apr 2024; RHWa. Wecock Common NE, SU6835 1185; 24 Apr 2024; RHWa. Wecock Wood, SU6900 1198; 22 Apr 2024; RHWa. Wesermarsch Road, SU6905 1161; 22 Apr 2024; RHWa. **1st for SU61.**

NN *Pseudotsuga menziesii* (Douglas Fir): Inchmery, SZ43028 99658; 25 Apr 2024; MR, MPa. **1st for SZ49.**

***NA *Puccinellia distans* (Reflexed Saltmarsh-grass):** Ashlett, SU46824 03333; 10 Jun 2024; MR. **1st for SU40R.**

***NA *Puccinellia rupestris* (Stiff Saltmarsh-grass):** Ashlett, SU46871 03280; 10 Jun 2024; MR. **1st for SU40R since 1987.** Eastoke Beach, SZ7278 9853; 14 Jun 2024; ST. Frequent in small previously flooded area in carpark. **1st for SZ79J since 1988.**

NN *Pulmonaria saccharata* (Bethlehem-sage): Inchmery, SZ44014 98768; 18 Jul 2024; MR. **1st for SZ49.**

NN *Pyracantha coccinea* (Firethorn): Hazleton Common LNR South, SU7026 1199; 26 Apr 2024; RHWa. **1st for SU71.**

NN *Pyracantha rogersiana* (Asian Firethorn): Pennington (North), SZ3161 9511; 18 Jan 2024; MWR. Leaves 43×22, 43×25, 44×23 mm petioles glabrous (n=5) pedicels glabrous (n=7) fruits red (not orange). 5m bush in wood, SZ 3161 9511. **1st for SZ39.**

NA *Quercus petraea* × *robur* = *Q. × rosacea* (Hybrid Oak): Marrelsmoor Coppice, SU6717 0825; 23 May 2024; RHWa. Johnston's Coppice - Scrub and meadow (Meadow Adjacent to J...), SU6918 0786; 07 May 2024; RHWa. Johnston's Coppice, SU6915 0801; 07 May 2024; RHWa. **1st for SU60.**

NA *Ranunculus omiophyllus* (Round-leaved Crowfoot): Inchmery, SZ449 988; 18 Jul 2024; MR. **1st for SZ49.**

***NA *Ranunculus sardous* (Hairy Buttercup):** Ambury Lane area, SZ1816 9479; 21 May 2024; MWR. Grass field, SZ 1816 9479. **1st for SZ19X.**

NN *Rapistrum rugosum* (Bastard Cabbage): Pug's Hole area, SZ0792; 07 Jun 2024; MWR. 1 plant, disturbed soil, roadside, Glenferness Avenue. **1st for SZ09.**

***NA *Rhynchospora fusca* (Brown Beak-sedge):** Matley Holms, SU33828 07808; 29 May 2024; MR. **1st for SU30I since 1999.**

NA *Rosa canina* × *tomentella* = *R. × dumetorum* Newbridge, SU2947 1521; 14 Jul 2024; MWR. Leaflets broad, rather weakly bi- to multiserrate, hairy on veins beneath hips ovoid, eglandular sepals reflexed, not hiding hips pedicels 9, 9, 11 mm, eglandular. Roadside, Furzley Road, SU 2947 1521. **1st for SU21.** King's Park (W side), SZ1190 9271; 06 Jul 2024; MWR. Leaflets dark, regularly uniserrate, hairy beneath hips ovoid, eglandular sepals reflexed, with large lobes hiding hips pedicels 17, 19mm, eglandular. Hedge, King's Park Drive, SZ 1190 9271. Close to *R. tomentella*, but leaflets regularly uniserrate and teeth not glandular. **1st for SZ19.**

***NA *Rosa micrantha* (Small-flowered Sweet-briar):** Corhampton Golf Course, SU5888 1951; 03 Sep 2024;

ASt. **1st for SU51Z since 1999.** South Holt, SU7417 1300; 18 May 2024; MR & HFG. **1st for SU71L.** Fillybrook -Crabs Field (SZ19/023), SZ127 984; 29 Jun 2024; MWh. **1st for SZ19.**

NN *Rosa multiflora* (Many-flowered Rose): Lovedean Yoell's Copse, SU6812; 10 May 2024; AHP, EJC. **1st for SU61.** Hermitage Stream OS - Hermit's Lea NW, SU7093 0753; 12 Jun 2024; RHWa. Hermitage Stream OS - Hawthorn Walk, SU7109 0683; 10 Jun 2024; RHWa. **1st for SU70.**

***NA *Rosa spinosissima* (Burnet Rose):** Westbrook Farm POS, SU6990 1048; 18 Apr 2024; RHWa. **1st for SU61.**

***NA *Rosa stylosa* (Short-styled Field-rose):** Pearce's Copse area, SU3126 1725; 12 Jul 2024; MWR. Leaflets regularly uniserrate, hairy beneath hips ovoid to obovoid, eglandular sepals patent pedicels 15, 23, 26mm, glandular disc with small cone styles well exerted but not in column. Hedge by track, Brickly Lake Lane, SU 3126 1725. **1st for SU31D.** Yew Hill (Parallel trackways), SU455 265; 03 Jul 2024; ASt. **1st for SU42N.** South Holt, SU7425 1319; 18 May 2024; MR & HFG. **1st for SU71L.**

***NA *Rosa tomentella* (Round-leaved Dog-rose):** Sway (Durns Town), SZ2864 9820; 10 Jul 2024; MWR. Leaflets dark, broad, weakly bi- to multiserrate, the small teeth with small glands, hairy beneath hips ovoid, eglandular sepals reflexed pedicels 7, 9mm, eglandular. Roadside hedge, Coombe Lane, SZ 2864 9820. **1st for SZ29Z since 1998.** East End, SZ3652 9740; 13 Jul 2024; MWR. Leaflets rather weakly bi- to multiserrate, densely hairy beneath hips ovoid, eglandular sepals reflexed or 0 pedicels 10, 13, 15mm, eglandular. Roadside hedge, Norleywood Road, SZ 3652 9740. **1st for SZ39T since 1988.**

NA *Rubus flexuosus* Southwick 1 km NE, SU6309; 24 Jul 2024; AHP, EJC. Southwick 2 km ESE, SU6407; 19 Jul 2024; AHP, EJC. **1st for SU60.**

NA *Rubus winteri* Gosport, SZ601 988; 01 Jan 2024; DRA, EJC, JAN. This bush previously identified as this. Few flowers present on one panicle. **1st for SZ69.**

***NA *Ruscus aculeatus* (Butcher's-broom):** Ildsworth north east, SU7514; 15 May 2024; AHP, EJC. **1st for SU71M.** Chewton Glen (SZ29/011), SZ225 944; 09 May 2024; MWh. **1st for SZ29H.**

NN *Salix alba* × *babylonica* = *S. × sepulcralis* (Weeping Willow): Jubilee Park, SU6801 1018; 18 Apr 2024; RHWa. **1st for SU61 since 1999.**

***NA *Salix repens* (Creeping Willow):** Ashley Hole area, SU2015; 02 Jun 2024; MWR. **1st for SU21C since ?1990s.** Hazleton Common LNR South, SU7036 1179; 26 Apr 2024; RHWa. **1st for SU71A since ?1990s.**

NA *Salix triandra* (Almond Willow): Hermitage Stream OS - Hermit's Lea NW, SU7089 0758; 12 Jun 2024; RHWa. Hermitage Stream OS - Hawthorn Walk, SU7109 0681; 10 Jun 2024; RHWa. **1st for SU70.**

***NA *Salvia verbenaca* (Wild Clary):** Tipner Interchange, SU6406 0305; 21 May 2024; RHWa, JAN. Tipner Interchange, SU6405 0306; 14 Aug 2024; RHWa. **1st for SU60L.** Hayling Island, Langstone Bridge car park, SU72162 03883; 14 May 2024; TN. A dozen or so plants flowering to E of entrance road. **1st for SU70G.**

***NA *Sanicula europaea* (Sanicle):** Southwick 1 km NE, SU6309; 24 Jul 2024; AHP, EJC. **1st for SU60J since 1998.** Waterloo Queen's Inclosure, SU6910; 24 Apr 2024; AHP, EJC. **1st for SU61V since ?1990s.**

NA *Saxifraga tridactylites* (Rue-leaved Saxifrage): B2149 Dell Piece W traffic island 2, SU7010 1248; 29 Apr 2024; RHWa. 1000s in cobble stones. **1st for SU71 since 1960s.**

NA *Schoenoplectus lacustris* (Common Club-rush): Inchmery, SZ449 988; 18 Jul 2024; MR. **1st for SZ49.**

***NA *Scutellaria minor* (Lesser Skullcap):** Lord's Oak area, SU2617; 31 Jul 2024; MWR. **1st for SU21T since 1992.**

***NA *Sedum anglicum* (English Stonecrop):** S of Janesmoor Plain, SU2427 1284; 12 Jun 2024; MWR. Roadside, SU 2427 1284. **1st for SU21.** Pennington Marshes, SZ3254 9241; 28 Aug 2024; MWR. Sea wall, SZ 3254 9241. **1st for SZ39G since ?1990s.**

NN *Senecio inaequidens* (Narrow-leaved Ragwort): Lower Buckland, Undershore, Walhampton, SZ3298 9603; 04 Aug 2024; MWR. 1 plant, roadside, Undershore Road, SZ 3298 9603. **1st for SZ39.**

NN *Sequoiadendron giganteum* (Wellingtonia): Stakes Coppice Remnant 5, SU6895 0858; 31 Mar 2024; RHWa. **1st for SU60.**

NA *Silene dioica* × *latifolia* = *S. × hampeana* (Hybrid Campion): Fordingbridge (Horseport area), SU1510 1414; 24 Apr 2024; MWR. 3 plants, roadside, A338, SU 1510 1414. **1st for SU11.**

NA *Sison segetum* Michelmersh, SU34196 27190; 14 Sep 2024; MR. 2 plants on edge of Maize crop. **1st for SU32.**

***NN *Smyrniolum olusatrum* (Alexanders):** Hurst Wood, Havant, SU6927 0952; 11 Apr 2024; RHWa. **1st for SU60Z.** Hayling Billy north, SU7103; 21 Oct 2024; AHP, EJC. **1st for SU70B.** Ambury Lane area, SZ1861 9403; 21 May 2024; MWR. Roadside, Lyndhurst Road (A35), SZ 1861 9403. **1st for SZ19X.**

NN *Solidago gigantea* (Early Goldenrod): Broadmarsh W., SU6984 0556; 19 Jun 2024; RHWa. **1st for SU60.**

***NA *Spartina maritima* (Small Cord-grass):** Cut Bridge Keyhaven, SZ30183 90939; 29 Aug 2024; MR. **1st for SZ39A since 1976.**

****NN *Spergula arvensis* (Corn Spurrey):** Southwick 1 km NE, SU6309; 24 Jul 2024; AHP, EJC. **1st for SU60J since ?1990s.**

IN *Spiraea douglasii* (Steeple-bush): Hazleton Common LNR South, SU7027 1193; 26 Apr 2024; RHWa. **1st for SU71.**

NN *Spiraea japonica* (Japanese Spiraea): Wecock Common NW, SU6816 1178; 24 Apr 2024; RHWa. **1st for SU61.**

***NA *Spiranthes spiralis* (Autumn Lady's-tresses):** Stoney Cross, SU2617 1107; 23 Aug 2024; MWR. 10 spikes. short grass, roadside, SU 2617 1107. **1st for SU21Q.** Farlington Marshes, SU6828 0447; 16 Aug 2024; RHWa. **1st for SU60X since 1990.** Bracklesham Road, SZ7477 9855; 22 Aug 2024; JoHe det. RHWa. **1st for SZ79P since 1996.**

***NA *Stachys arvensis* (Field Woundwort):** Otterbourne Hill Reservoir, SU45369 22497; 12 Sep 2024; TN. Several small plants noted. **1st for SU42L.**

***NN *Stratiotes aloides* (Water-soldier):** Twyford Waterworks, SU4935 2476; 04 May 2024; ASt. Twyford Waterworks, Pond, SU4939 2482; 20 Jul 2024; ASt. Many plants in pond, non flowering. **1st for SU42X.**

***NA *Succisa pratensis* (Devil's-bit Scabious):** Beech Wood Strip 1 Meadow, SU6982 0980; 08 Apr 2024; RHWa. **1st for SU60Z since ?1990s.**

NN *Symphoricarpos orbiculatus* (Coralberry): Purbrook Heath N, SU6685 0785; 21 May 2024; RHWa, JAN. **1st for SU60.**

NN *Symphytum orientale* (White Comfrey): South Parade/Burgoyne Gardens, SZ6468 9822; 12 May 2024; RHWa. **1st for SZ69 since 1997.**

NN *Symphytum × hidcotense* 'Hidcote Blue' Morestead (road verge along Morestead road), SU5088 2563; 15 Apr 2024; NWA. Dominant along short stretch of roadside verge from crossroads to The Lime Centre. **1st for SU52.**

NA *Taraxacum subnaevosum* (Pale-bracted Dandelion): Titchfield, SU5361 0556; 14 Apr 2024; MR, MPa, EJC, JAN, det. AJR. **1st for VC.**

NN *Tellima grandiflora* (Fringecups): Fordingbridge (Horseport area), SU1508 1447; 24 Apr 2024; MWR. 2 plants, roadside near garden, near A338, SU 1508 1447, in dense *Urtica*. **1st for SU11.** Frank's Coppice C., SU6879 0897; 06 Apr 2024; RHWa. **1st for SU60.**

NN *Thuja plicata* (Western Red-cedar): Lifeboat Station Heath SINC, SZ7491 9845; 01 May 2024; RHWa. **1st for SZ79.**

***NA *Tilia platyphyllos* (Large-leaved Lime):** Midgham Farm area, SU1362 1263; 01 Jul 2024; MWR. By track, SU 1362 1263. **1st for SU11G.** Near South Gorley (Huckles Bridge area), SU1512 1004; 07 May 2024; MWR. Roadside hedge, Salisbury Road (A338), SU 1512 1004. **1st for SU11K since 1997.** Stoney Cross Plain, SU2580 1175; 23 Aug 2024; MWR. Roadside hedge, A31, SU 2580 1175. **1st for SU21K.** Nursling, SU3773 1674; 04 Sep 2024; MWR. Roadside hedge, Balmoral Way, SU 3773 1674. **1st for SU31T.** Hill Head central Seafield Park, SU5402; 26 Jun 2024; AHP, EJC. South Holt, SU7531 1425; 18 May 2024; MR. South Holt, SU7520 1418; 18 May 2024; MR. **1st for SU71M.**

***NA *Torilis nodosa* (Knotted Hedge-parsley):** Nursling Industrial Estate area, SU3682 1539; 27 Jul 2024; MWR. Abundant, roadside, Mauretania Road, SU 3682 1539. **1st for SU31S.** Marchwood (E side), SU3909 1064; 09 Jun 2024; MWR. Wall/pavement junction, Normandy Way, SU 3909 1064. **1st for SU31V.** Winchester, Base of King Alfred, SU4851 2932; 27 Jun 2024; ASt. Photo. **1st for SU42Z.** Titchfield, SU536 055; 14 Apr 2024; MR, MPa, EJC, JAN. **1st for SU50H.** Tipner Park & Ride, SU6418 0328; 21 May 2024; RHWa, JAN. **1st for SU60L.** Farlington Naval Estate - Ainsdale Road, SU6775 0616; 29 May 2024; RHWa. Large patches. **1st for SU60T.** Havant Rugby Football Club Playing Fields, SU7078 0696; 10 Jun 2024; RHWa. Havant Civic Plaza, SU716 069; 01 May 2024; TN. Havant Civic Plaza, SU71635 06892; 27 Jun 2024; TN. Locally frequent in

relaxed mowing area to front of Civic Plaza. **1st for SU70D.** Emsworth (Pavement edge against garden walls), SU746 058; 03 Jun 2024; FMo. Procumbent stems rising against walls. Fruit with straight spines and tubercles. **1st for SU70M.**

NN *Trachycarpus fortunei* (Chusan Palm): Queen's Inclosure Primary School footpath, SU6951 1014; 16 Apr 2024; RHWa. **1st for SU61.**

NN *Trachystemon orientalis* (Abraham-Isaac-Jacob): Titchfield, SU539 058; 14 Apr 2024; MR, MPa, EJC, JAN. **1st for SU50 since 1996.**

NA *Tragopogon pratensis* subsp. *minor* NW of Fryern Court, SU1382 1630; 05 Jun 2024; MWR. Roadside, Whitsbury Road, SU 1382 1630. Fordingbridge (Horseport area), SU1510 1440; 24 Apr 2024; MWR. Roadside, A338, SU 1510 1440. **1st for SU11 since 1997.** S of Wick, SU1674 2012; 25 May 2024; MWR. 2 plants, roadside, Salisbury Road (A338), SU 1674 2012. **1st for SU12 since 1888.**

***NA *Trifolium fragiferum* (Strawberry Clover):** Titchfield, SU535 054; 14 Apr 2024; MR, MPa, EJC, JAN. **1st for SU50H since 1997.**

***NA *Trifolium micranthum* (Slender Trefoil):** Bartley (S side), SU3012; 29 May 2024; MWR. **1st for SU31B since ?1990s.** Purbrook Heath N, SU6685 0783; 21 May 2024; RHWa, JAN. Purbrook Heath S, SU6677 0774; 21 May 2024; RHWa, JAN. **1st for SU60T since ?1990s.**

***NA *Trifolium ornithopodioides* (Bird's-foot Clover):** Tipner Park & Ride, SU6418 0328; 21 May 2024; RHWa, JAN. **1st for SU60L.** Meyrick Park, SZ081 921; 23 May 2024; RSh. **1st for SZ09W.**

***NA *Trifolium striatum* (Knotted Clover):** Barncroft Way, Havant, SU71214 07092; 05 Jun 2024; TN. **1st for SU70D.** Meyrick Park, SZ081 921; 23 May 2024; RSh. **1st for SZ09W.**

***NA *Trifolium subterraneum* (Subterranean Clover):** Cunniger Bottom area, SU1993 1646; 02 Jun 2024; MWR. Short grass, roadside, Roger Penny Way (B3078), SU 1993 1646. **1st for SU11Y.**

NA *Tripleurospermum maritimum* subsp. *vinicaule* Inchmery, SZ43981 98614; 25 Apr 2024; MR, MPa. **1st for SZ49 since 1985.**

***NA *Ulmus minor* subsp. *angustifolia* (Cornish Elm):** Ambury Lane area, SZ1892 9430; 21 May 2024; MWR. Roadside hedge, Lyndhurst Road (A35), SZ 1892 9430. **1st for SZ19X since 1991.** Sway (Durns Town), SZ2866 9802; 10 Jul 2024; MWR. Roadside hedge, Coombe Lane, SZ 2866 9802. **1st for SZ29Z.**

***NA *Valeriana officinalis* (Common Valerian):** Nursling Industrial Estate area, SU3666 1516; 27 Jul 2024; MWR. Several plants by footpath (Test Way), SU 3666 1516. **1st for SU31S since 1999.**

NA *Valerianella locusta* (Common Cornsalad): Tipner Park & Ride, SU6417 0335; 21 May 2024; RHWa, JAN. **1st for SU60.**

***NA *Verbascum nigrum* (Dark Mullein):** Harts Farm Way Landfill, SU7017 0557; 16 Jun 2024; RHWa. **1st for SU70C.**

NN *Verbascum phlomoides* (Orange Mullein): Stubbington 1 km north east, SU5604; 03 Oct 2024; AHP, EJC. **1st for**

SU50. King's Park (W side), SZ1150 9271; 06 Jul 2024; MWR. Plant 2.15m tall. Lower stamens with anthers 5mm (n=3). 1 plant, roadside, SZ 1150 9271. **1st for SZ19 since 1942.**

***NA *Verbena officinalis* (Vervain):** Rockbourne, SU1153 1818; 26 Aug 2024; MWR. Footpath by garden, SU 1153 1818. **1st for SU11E since ?1990s.** Twyford Waterworks, SU493 248; 20 Jul 2024; ASt. **1st for SU42X.**

NN *Verbena rigida* (Slender Vervain): Bracklesham Road, SZ7471 9847; 14 Sep 2024; RHWa. **1st for SZ79 since 1999.**

***NA *Veronica officinalis* (Heath Speedwell):** Bartley (S side), SU3020 1269; 29 May 2024; MWR. Roadside, Beechwood Road, SU 3020 1269. **1st for SU31B since 1998.** Corhampton Golf Course, SU5819; 06 Aug 2024; ASt, Kwa, lca, lfi. **1st for SU51Z since ?1990s.**

NN *Viburnum farreri* × *grandiflorum* = *V.* × *bodnantense* Hulbert Road Cemetery, Waterlooville, SU6872 0918; 13 Apr 2024; RHWa. **1st for SU60.**

NN *Vicia villosa* (Fodder Vetch): Broadmarsh E Hill, SU7030 0555; 16 Jun 2024; RHWa. **1st for SU70.**

NN *Vinca difformis* (Intermediate Periwinkle): Hurst Wood, Havant, SU6941 0975; 11 Apr 2024; RHWa. Garden escape dominating edge of a particular entrance path. **1st for SU60.**

NN *Vinca major* var. *oxyloba* Titchfield, SU5305; 14 Apr 2024; MR, MPa, EJC, JAN. **1st for SU50.** Lepe, SZ44806 98603; 25 Apr 2024; MR, MPa. **1st for SZ49 since ?1990s.**

****NA *Viola canina* (Heath Dog-violet):** Hinchelsea Bottom (Setthorns), SU2600; 27 Jun 2024; RSh. **1st for SU20Q.**

Bramshaw Telegraph area, SU2205 1686; 17 May 2024; MWR. 1 plant, heath, SU 2205 1686. **1st for SU21I.**

NA *Viola odorata* var. *praecox* Lymington, Hampshire, SZ3137 9451; 06 Feb 2024; THa. **1st for SZ39.**

***NA *Viola palustris* (Marsh Violet):** Beaulieu Road Station 1 km north, SU3407; 01 Sep 2024; AHP, EJC. **1st for SU30N since 1999.**

NA *Viola reichenbachiana* × *riviniana* = *V.* × *bavarica* Stakes Coppice Remnant 5, SU6915 0873; 02 Apr 2024; RHWa. **1st for SU60.**

NA *Viola riviniana* × *lactea Bramshaw Telegraph, SU2296 1660; 17 May 2024; MWR. Leaves narrow (30 × 14, 25 × 12, 23 × 12 mm), base rounded corolla intermediate between parents in colour (darker than BSBI *Violas* handbook, p60, top left) stipules as photo on same page. 1 plant, SU 2296 1660. **1st for SU21I.**

NN *Vitis vinifera* (Grape-vine): Bridge Road, SU7469 0618; 01 Oct 2024; RHWa. **1st for SU70.**

NN *Weigela florida* (Weigelia): Stakeshill Coppice Remnant 1, SU6895 0908; 06 Apr 2024; RHWa. Escaping through hedge. **1st for SU60.**

NN *Yucca gloriosa* (Spanish-dagger): Titchfield Common, SU513 060; 25 Mar 2024; AHP, EJC. One established plant SU513060. **1st for SU50.** Hurst Wood, Havant, SU6950 1000; 11 Apr 2024; RHWa. Garden throwout. **1st for SU61.**

NA *Zannichellia palustris* (Horned Pondweed): Nomansland, SU2544 1732; 21 Apr 2024; MWR. Pond, SU 2544 1732, among *Callitriche stagnalis*.

VC12 Records

Compiled by Tony Mundell

This report covers records for 18 Jul 2024 to 10 Oct 2024. Many thanks to the people who continue to send me records via Living Record or within emails. The number of contributors has dropped off very significantly compared to the heady days of the last few years of recording for Atlas 2020, so I am forced to include many of my own records here, though I am usually plant hunting with someone else. As usual some of these records were found during surveys at the invitation of the landowner, so inclusion here does not imply that there is public access. If you want to visit please check with me first.

Many of my outings in 2024 were, like 2023, chasing after particular Threatened Plants by systematically searching at as many of the former 8-figure grid references where they had been recorded in the past. The results have been rather disturbing with many apparent losses, especially on heathland sites which are getting overgrown with Gorse or Birch. The apparent collapse of Heath Cudweed *Omalotheca sylvatica* has been extraordinary. In 2024 I carefully checked 33 grid refs at Hawley Common, 13 at Liss Forest, 10 at Elvetham Heath, 7 at Southwood Heath, 6 at Eversley Common, 2 at Castle Bottom, 2 at Fleet Pond, 1 at Blackbushe and 1 at Penny Hill, but not a single plant was re-found. However, Holly Stanbury and I did stumble on a few plants at Warren Heath when en-route to search for Marsh Clubmoss and Oblong-leaved Sundew. Of course, 'not found' does not necessarily mean 'not present'. As an example, Hawley Common was very heavily grazed when visited, so perhaps the plants had been eaten. I am hoping that plants will be found there in the future.

On another of these Threatened Plant searches, I was delighted to find a splendid colony of Loddon Pondweed *Potamogeton nodosus* in the Blackwater River just south of its junction with the River Whitewater on the Hampshire/Berkshire border. Previous records nearby had been just north of that junction and so in Berkshire.

Several colonies of Round-leaved Wintergreen *Pyrola rotundifolia* are known in ditches beside the army high-speed test track near Aldershot. In 2024 I also found separate colonies of Common Wintergreen *Pyrola minor* growing in the same ditches. During my August visit *P. minor* (which flowers in June) could be identified by the seed spikes where the characteristic short and straight stigmas had persisted. In contrast the nearby *P. rotundifolia* plants were in flower showing the longer and curved stigmas. I then found even more colonies of *Pyrola* leaf rosettes but sadly without flowers or fruiting spikes, so their positive identification will have to wait until at least next year, because the leaves are too similar for me to tell apart.

The curious tale below about Wall Bedstraw *Galium parisiense* is worth reading. I was given this information by someone from the Kew Millennium Seed Bank after the planting, but I do not know who originally thought it was a good idea to raise and translocate the plants. It seems rather a waste of effort to me. My informant from Kew says that a Biodiversity Management Plan was drawn up to protect the plants, but like me he is not optimistic that the plants can survive.

Apart from the uncommon native or archaeophyte species listed below, as usual I have included a scattering of records of alien plants. It tends to be alien plants that suddenly start to increase, even though sometimes they eventually decrease again. One plant included below that is definitely increasing in Britain is Jersey Cudweed, *Laphangium luteoalbum*. Stace gives it as possibly native in a few particular habitats but also points out that it is increasingly introduced elsewhere. Atlas 2020 points out the 50-fold increase in the number of hectads recorded for it since 2000, and says it is far more likely that it arrived and was subsequently spread by humans. I have become used to finding it in very urban surroundings but was really surprised to see it (together with Bilbao's Fleabane *Erigeron floribundus* and Guernsey Fleabane *E. sumatrensis*) in a very remote part of Woolmer Forest.

Another species that seems to have recently started spreading, at least in VC12, is Greek Dock *Rumex cristatus*. I have known it on a road verge at Heckfield since 1993 and it still persists there. Heckfield is only about 2 km from the border with Berkshire where it is quite a common plant. In fact, it is quite a noticeable feature of verges of the M4 in the Reading area. This year I noticed it in a couple of places beside the A339 near Basingstoke. A very large colony has also arisen beside the A287 south of Church Crookham where the road was re-aligned and a new roundabout was constructed. Presumably it must have been introduced as seed with the earth-moving machinery that was working on site for many months. As this is a local junction for me there is no way that I would have missed such a tall, conspicuous plant in previous years.

***Agrimonia procera* (Fragrant Agrimony)** Fleet Pond SU8248 5529, in the car park. Hawley Common SU8343 5818, hundreds of plants beside a main track for 40m, both Tony Mundell & Mike Marshall 13 Sept 2024.

***Agrostis canina* (Velvet Bent)** RSPB Hazeley Heath SU7501 5841, in poached area of track, near the *Juncus foliosus*, Tony Mundell & Peter Vaughan 19 Aug 2024. Woolmer Forest SU8130 3203 & SU8030 3202, flooded places on tracks, Tony Mundell, Holly Stanworth & Bill Stanworth 10 Oct 2024.

***Amaranthus powellii* (Powell's Amaranth)** Micheldever SU528411, a few plants on wheatfield margin, one flowering, Jonathan Shanklin 21 Aug 2024.

***Anacamptis pyramidalis* (Pyramidal Orchid)** St Giles Hill SU487293 & SU4892 2921, one flowering plant at each location, Anna Stewart 21 Jul 2024.

***Anisantha diandra* (Great Brome)** Worting SU6039 5313, a few on arable crop edge, Tony Mundell & Mike Marshall 26 Jul 2024.

***Arctium lappa* (Greater Burdock)** Hazeley Heath – South, many dozens of plants, sometimes growing with *A. minus*, beside a track and extending for over 200m at SU7635 5770, SU7632 5772, SU7631 5774, SU7626 5780, SU7626 5784 and SU7625 5789, Tony Mundell & Peter Vaughan 19 Aug 2024.

***Arenaria leptoclados* (Slender Sandwort)** Micheldever Spoil Heaps, E of railway SU519441, in the car parking area. Using a microscope on a specimen, the fruits are only 2.6mm × 1.4mm and the seeds are 0.48mm in diameter, so it keys to *A. leptoclados* rather than *A. serpyllifolia*, Tony Mundell & Hants Flora Group 3 Aug 2024.

***Baldellia ranunculoides* (Lesser Water-plantain)** Fleet Pond, dozens of plants on Gelvert Marsh at SU82465 54982 and SU82453 54989 in a recent scrape, but also widely scattered in many other places on this marsh, Tony Mundell, John Sutton & Jon Wells 22 Aug 2024.



Lesser Water-plantain *Baldellia ranunculoides*, Fleet Pond. John Sutton

***Betula × aurata* (*B. pendula* × *pubescens*)** Micheldever Spoil Heaps, E of railway SU5196 4434, at least one tree, Tony Mundell & Hants Flora Group 3 Aug 2024.

***Bidens cernua* (Nodding Bur-marigold)** Blackmoor SU7888 3340 & SU7877 3316, at least 10 flowering plants in a sea of *Crassula helmsii*, Tony Mundell & Cathy Wilson et al 4 Sep 2024.

***Blackstonia perfoliata* (Yellow-wort)** Andover Business Park (East) SU3345, beside depression for drainage purposes, John Moon 27 Jul 2024.

***Bromus secalinus* (Rye Brome)** Micheldever SU528411, wheat field margin, Jonathan Shanklin 21 Aug 2024.

***Calamagrostis epigejos* (Wood Small-reed)** Conford Moor SU818333, Cathy Wilson and Alton Natural History Society 11 Aug 2024.

***Carex arenaria* (Sand Sedge)** Shortheath Common SU7741 3690, SU7743 3692, SU7748 3658 and SU7765 3694, Tony Mundell & Anna Stewart 29 Aug 2024.

***Carex echinata* (Star Sedge)** RSPB Hazeley Heath SU7544 5825, Jane Sears 30 Jul 2024. Shortheath Common SU7757 3667, a few plants in a large puddle where the stream crosses the footpath, Tony Mundell & Anna Stewart 29 Aug 2024. Penny Hill SU8110 5770, on the side of a ditch, Tony Mundell 16 Sep 2024.

Carex hostiana* × *demissa RSPB Hazeley Heath SU754582, Jane Sears 30 Jul 2024.

***Carex pulicaris* (Flea Sedge)** Conford Moor SU818333, Cathy Wilson and Alton Natural History Society 11 Aug 2024.

***Carex viridula* (Small-fruited Yellow-sedge)** Fleet Pond SU8248 5496, plentiful over a large area here with abundant *Littorella uniflora* and so far the wretched *Crassula helmsii* has not spread as far as this spot, Tony Mundell 16 Sep 2024.

***Catapodium rigidum* (Fern-grass)** Andover Business Park (West) SU3245, along edges of mown verges, John Moon 27 Jul 2024.

***Cirsium dissectum* (Meadow Thistle)** RSPB Hazeley Heath SU7545 5826, Jane Sears 30 Jul 2024.

***Comarum palustre* (Marsh Cinquefoil)** Shortheath Pond, spread along several metres of pond edge from SU7750 3679 to SU7749 3680, also on pond edge at SU77603686 & SU7753 3692, Tony Mundell & Anna Stewart 29 Aug 2024.

***Cornus sericea* (Red-osier Dogwood)** Micheldever SU528411, in hedge, Jonathan Shanklin 21 Aug 2024.

***Cortaderia selloana* (Pampas-grass)** Warren Heath SU7767 5944, a large plant on north side of Sir Richard's Ride, not yet in flower, Tony Mundell & Holly Stanbury 21 Aug 2024.

***Crassula tillaea* (Mossy Stonecrop)** Slab Common SU7813 3587 & SU7818 3588, a few plants, Tony Mundell & Mary Parker 13 Aug 2024.

***Cuscuta epithymum* (Dodder)** RSPB Hazeley Heath SU7531 5837, Jane Sears 30 Jul 2024. RSPB Hazeley Heath, at least 60 patches spread along 85m of path from SU7533 5831 to SU7527 5825, mainly as a parasite of mown *Ulex minor* or even *Ulex europaeus*, Tony Mundell & Mary Parker 19 Aug 2024.

***Cytisus multiflorus* (White Broom)** Warren Heath, a large bush on the south side of Sir Richard's Ride at SU77344 59525. The stems and leaves look silvery white or glaucous because of the dense covering of adpressed white hairs, mostly in furrows in the stems, Tony Mundell & Holly Stanbury 21 Aug 2024.

***Digitaria ischaemum* (Smooth Finger-grass)** Slab Common SU7813 3587 & SU7817 3589, hundreds of plants on the bare sand. Also, at Hogmoor Inclosure SU7888 3497 still thriving at pond edge, both Tony Mundell & Mary Parker 13 Aug 2024.

***Dittrichia graveolens* (Stinking Fleabane)** A339, Basingstoke, noted from car at approximately SU6438 5055, still in bud, Rob Still 13 Sep 2024.

***Drosera intermedia* (Oblong-leaved Sundew)** I visited dozens of former sites as part of the Threatened Plant Project – this is just a few of the records collected. Brock's Hill Heath SU8285 5250, about 50 plants, Tony Mundell & Dave Pearson 5 Aug 2024. RSPB Hazeley Heath, 20 plants at SU75625 58239 in a damp corner of a recent, large scrape, Tony Mundell & Peter Vaughan 19 Aug 2024. Hazeley Heath – South, 70 plants at SU76475 57645, Tony Mundell & Peter Vaughan 19 Aug 2024. Warren Heath, at least 100 plants at SU78214 58879 near the top of the slope, Tony Mundell & Holly Stanbury 21 Aug 2024. Warren Heath, on the flushed slope on the northern side of the valley, extending from SU7818 5888 via SU7820 5885 to SU7827 5889. The overall population here must be around 2,000 or 3,000 plants, Tony Mundell & Holly Stanbury 21 Aug 2024. Woolmer Forest, dozens of plants at SU79354 32415 submerged under 5cm of flood water, beside pond at Cranmer Bottom, Tony Mundell, Holly Stanworth & Bill Stanworth 10 Oct 2024.

***Dryopteris carthusiana* (Narrow Buckler-Fern)** RSPB Hazeley Heath SU7540 5822, Jane Sears 30 Jul 2024. Shortheath Pond SU7750 3678, at the end of the path, Tony Mundell & Anna Stewart 29 Aug 2024

***Elatine hexandra* (Six-stamened Waterwort)** Fleet Pond, 100+ plants on Gelvert Marsh at SU82465 54982 and SU82453 54989 in a recent scrape, also, at least 100 plants



Six-stamened Waterwort *Elatine hexandra*, Fleet Pond. John Sutton

around SU82433 55005 and SU82430 55010 in a recent scrape, through the *Phragmites* reed bed, Tony Mundell, John Sutton & Jon Wells 22 Aug 2024.

***Eleocharis acicularis* (Needle Spike-rush)** Fleet Pond, a few plants at Sandy Bay at SU8239054973, SU82387 54970, SU82390 54973 and SU82388 54976. Also, a few at Gelvert Marsh in a scraped area through the reed bed at SU82459 54985, SU82430 55013, SU82429 55012, SU82432 55005 and SU82417 55033, Tony Mundell, John Sutton & Jon Wells 22 Aug 2024.

***Elymus caninus* (Bearded Couch)** Micheldever SU528411, Jonathan Shanklin 21 Aug 2024.

***Epilobium palustre* (Marsh Willowherb)** Conford Moor SU8133, Cathy Wilson and Alton Natural History Society 11 Aug 2024. Liss Forest, Longmoor, still in ditch on SE side of the main track at SU7842 2956 and SU7840 2954, Tony Mundell 9 Sep 2024.

***Epilobium roseum* (Pale Willowherb)** Woolton Hill SU4411 6263, two plants on north side of ditch, to the east of track. Petiole c. 15 mm on lower leaves, mixed hairs on upper stem and sepals, pale pink flowers, Dave Pearson 4 Aug 2024.

***Epipactis phyllanthes* (Green-flowered Helleborine)** Hollywater Road, Bordon, overall total of 12 plants, all on the west side of the road with none on the east side, 9 of them in SU8054 3446 but the one 10m south seen on 12 July 2024 has gone, Bill Wain 4 Aug 2024.

***Euphorbia lathyris* (Caper Spurge)** Pondtail Flash, Basingstoke Canal SU8235 5366, seven tall plants, Tony Mundell 28 Aug 2024.

***Euphorbia oblongata* (Balkan Spurge)** Basingstoke SU6402 5252, in a block of abandoned land between Waitrose and St Clements in central Basingstoke, Ian Ralphs 29 Aug 2024.

***Euphorbia platyphyllos* (Broad-leaved Spurge)** Andover Business Park (West) SU3287 4551, one plant on bank, John Moon 27 Jul 2024.

***Euphorbia stricta* (Upright Spurge)** Crawley SU4310 3468, single fruiting plant on sparsely vegetated verge, Tristan Norton 22 Aug 2024.

***Filago lutescens* (Red-tipped Cudweed)** Broomhurst Farm, road verge, found a total of 7 flowering plants and marked them all using pebbles. Two at SU81251 56373 (3m in from the tarmac and post labelled 'No parking' and 10cm from one *Scleranthus annuus*), 1 at SU81247 56371, 1 at SU81252 56374, 1 at SU81256 56369 and 2 at SU81258 56361 (one of them 35cm tall), Tony Mundell & Mike Marshall 1 Aug 2024.

***Filipendula vulgaris* (Dropwort)** Worthy Down SU4550 3542, SU4550 3544 & SU4542 3519, still many plants but area no longer grazed so getting overgrown, Tony Mundell & David Murdoch 15 Aug 2024.

***Galeopsis angustifolia* (Red Hemp-nettle)** Micheldever Spoil Heaps, W of railway, SU5191 4471, SU5190 4485 & SU5189 4484, all very small plants, Tony Mundell & Hants Flora Group 3 Aug 2024. Tidgrove Warren Farm SU518542, doing well, perhaps 40–50 plants in flower, though we did not scour the area by any means, Andrew Bolton 4 Aug 2024.

***Galium parisiense* (Wall Bedstraw)** Marjoram Meadow, Basing SU6545 5286, Chris Cockel 14 Aug 2024. This meadow, now a new housing estate, was a native site for a huge number of plants of *Galium parisiense* in 2011. The developers were persuaded to plant 540 plugs of *Galium parisiense*, as mitigation, along the railway bank from SU6545 5286 to SU6573 5290, adjacent to the new houses. These plants had been raised from seed collected from the colony on the ancient brick wall near Basing House, by staff of the Kew Millennium Seed Bank. It seems highly unlikely to me (Tony Mundell) that the plants will persist as the plant is intolerant of any competition and the soil would need tilling annually.

***Helosciadium inundatum* (Lesser Marshwort)** Blackmoor SU7845 3335, patches over 4m x 5m of a small shallow pond, Tony Mundell & Cathy Wilson et al 4 Sep 2024.



Lesser Marshwort *Helosciadium inundatum*, Blackmoor. Tony Mundell

***Hottonia palustris* (Water-violet)** Fleet Pond, vegetative plants at SU82536 54950 and more nearby in Gelvert Stream overflow channel, Tony Mundell, John Sutton & Jon Wells 22 Aug 2024.

***Hylotelephium telephium* (Orpine)** Near Thatcher's Ford, several flowering plants at SU74162 63388 on the north side of the road, Tony Mundell 18 Sep 2024.

***Hypericum elodes* (Marsh St John's-wort)** Shortheath Pond SU7754 3693, SU7753 3691 & SU7748 3684 at pond edge, Tony Mundell & Anna Stewart 29 Aug 2024. Blackmoor SU7877 3316 & SU7888 3340 in a sea of *Crassula helmsii*, Tony Mundell & Cathy Wilson et al 4 Sep 2024. Southwood SANG SU8395 5488, in the new pond, also Hawley Common SU8375 5806, both Tony Mundell & Mike Marshall 13 Sep 2024.

***Hypochaeris glabra* (Smooth Cat's-ear)** Edenbrook Park cycle track, we only searched a small area, finding at least a dozen at SU78756 54772, a dozen at SU78748 54768, a dozen at SU78753 54767, a dozen at SU78757 54772, 5 at SU78767 54764, 2 at SU78768 54774, 2 at SU78773 54778 and 2 at SU78782 54764, Tony Mundell & Mike Marshall 1 Aug 2024. Slab Common SU7817 3589, only a single plant found. Area much disturbed by a motorbike club, Tony Mundell & Mary Parker 13 Aug 2024.

***Illecebrum verticillatum* (Coral-necklace)** Eversley Common SU7919 5892, 30 - 50 plants scattered over c.50m



Coral-necklace *Illecebrum verticillatum*, Eversley Common. Clare Andrews

of track, Clare Andrews 3 Aug 2024. Slab Common SU7818 3588, Tony Mundell & Mary Parker 13 Aug 2024. Woolmer Forest SU7988 3209, SU8018 3238, SU8026 3201, SU8035 3201, SU8040 3200, SU8044 3200 & SU8137 3203, Tony Mundell, Holly Stanworth & Bill Stanworth 10 Oct 2024.

***Impatiens capensis* (Orange Balsam)** Hawley Meadows SU8606 5902, by a bridge, Tony Mundell & Anna Stewart 17 Aug 2024.

***Isolepis setacea* (Bristle Club-rush)** Slab Common, several plants in damp patches at SU78069 35852 and SU7805 3583, Tony Mundell & Mary Parker 13 Aug 2024. Liss Forest, Longmoor SU7962 3003, SU7965 3004 & SU7989 3030, Tony Mundell 9 Sep 2024. Woolmer Forest SU7942 3223, about 20 plants on a wet sandy track, Tony Mundell, Holly Stanworth & Bill Stanworth 10 Oct 2024.

***Juncus foliosus* (Leafy Rush)** RSPB Hazeley Heath, total of only 16 plants. Until 2021 this plant was in four separate puddles spread along about 60m of the track. All



Leafy Rush *Juncus foliosus* on left beside Bulbous Rush *J. bulbosus* on right, Hazeley Heath. Tony Mundell

four puddles are now very poached by horses with many lumps of vegetation pulled out. They are no longer the discrete sandy puddles they used to be. Not re-found in the southern-most two 'puddles' that are almost dried up. Two plants re-found at SU75012 58413. Three plants at SU75019 58410, one of them on the extreme NE side of the path with the other two 1 m and 2 m further SW. At the northern-most 'puddle' we found 11 plants at SU75008 58425 growing with more plentiful *J. bulbosus*, Tony Mundell & Peter Vaughan 19 Aug 2024.

***Kickxia spuria* (Round-leaved Fluellen)** Sutton Scotney Estate SU454370, 10+ plants sporadically along field edge, Carolyn Doorbar 8 Aug 2024.

***Koeleria macrantha* (Crested Hair-grass)** Worthy Down SU4548 3545, several plants on top of ant hills in a tiny 12m diameter patch of surviving excellent chalk grassland habitat. All the surrounding area was excellent habitat 10 years ago but is now getting overgrown as grazing has ceased, Tony Mundell & David Murdoch 15 Aug 2024.

***Laphangium luteoalbum* (Jersey Cudweed)** Four Marks SU675352, Jonty Denton 9 Oct 2024. Woolmer Forest SU7984 3210, SU7981 3210, SU7979 3211 and SU8001 3206, several plants in an area recently burnt in a heath fire, Tony Mundell, Holly Stanworth & Bill Stanworth 10 Oct 2024.

***Lathyrus nissolia* (Grass Vetchling)** Andover Business Park (West) SU3271 4549, patch of plants at end of road past Golf Cars Ltd, John Moon 27 Jul 2024.

***Laurus nobilis* (Bay)** Kingsley Churchyard SU7886 3823, a female shrub which has a few globular, black fruits. Another



Jersey Cudweed *Laphangium luteoalbum*, Woolmer Forest. Tony Mundell

Bay shrub at SU7885 3823 nearer to the church door is showing no fruits, Tony Mundell 5 Oct 2024.

***Lepidium latifolium* (Dittander)** Crookham Park SU8135 5142, a patch of flowering plants, Rob Still 13 Aug 2024. Tony Mundell visited this site on 16 Sep 2024, finding 22 stems c.1.6m tall in green seed, on a steep bank. The bank was being mown, but I managed to meet a parish councillor, and delay these particular plants being mown until after the end of September (by which time the seed should be ripe).

***Linum radiola* (Allseed)** Cudbury, single plant in middle of minor track at SU76155 60648. This is close to where last year on 11 Aug 2023 I found this footpath buried in bulldozed Birch trees and their roots. That mess has since been cleared up by Forestry England. We looked hard but could not re-find more Allseed or any Chaffweed that used to grow here, Tony Mundell & Holly Stanbury 21 Aug 2024. Liss Forest, Longmoor, many plants in moist vehicle wheel ruts at SU7941 2986, SU7942 2987, SU7943 2988 and SU7945 2989, Tony Mundell 9 Sep 2024. Woolmer Forest, c.70 plants scattered in the barer patches of a mown grassy track. c. 20 plants at SU80326 32016, c. 20 at SU80326 32014, c. 10 at SU80324 32014, c.10 at SU80320 32012 and c. 10 at SU80321 32015, Tony Mundell, Holly Stanworth & Bill Stanworth 10 Oct 2024.

***Lithospermum officinale* (Common Gromwell)** Micheldever SU526438, Jonathan Shanklin 17 Aug 2024.

***Littorella uniflora* (Shoreweed)** Fleet Pond, 100+ plants on Gelvert Marsh at SU82465 54982 and SU82453 54989 in a recent scrape. Also, many plants, some flowering at SU82501 54960, Tony Mundell, John Sutton & Jon Wells 22 Aug 2024. Blackmoor SU7886 3315, about a dozen plants on edge of a shallow pool, Tony Mundell & Cathy Wilson et al 4 Sep 2024. Fleet Pond, abundant over a large area at SU8248 5496 with much *Carex viridula* and, so far, the wretched *Crassula helmsii* has not spread as far as this spot, Tony Mundell 16 Sep 2024.

***Lycium barbarum* (Duke-of-Argyll's Teaplant)** Oakhanger Road, on west road verge at SU7715 3668 and SU7714 3667, Tony Mundell & Anna Stewart 29 Aug 2024.

***Lycopodiella inundata* (Marsh Clubmoss)** I made many records of this in 2024 and it has decreased or is apparently lost at many former sites. I am only including the best two sites here. Woolmer Forest, about 2,000 plants in this main colony centred on SU7952 3269 which stretches for about 125m from SU79535 32754 southwards to SU79508 32632 along the grassy mown track that is currently flooded in several places. Another colony of over 1,000 plants is centred at SU8134 3202. It extends for 54 m along the southern part of a vehicle-rutted and currently partly-flooded track, from the eastern end at SU81371 32034 to the western end at SU81317 32033. Between SU81347 32033 and SU81338 32034, is the main concentration with c.1,000 plants and hundreds of strobili. Both Tony Mundell, Holly Stanworth & Bill Stanworth 10 Oct 2024.

***Lythrum hyssopifolia* (Grass-poly)** High speed test track, Aldershot, on the wet, sandy track, 20+ plants at SU84007 51470, 20+ at SU84006 51464 and 20+ at SU84005 51462, many plants at SU84012 51457, 2 at SU84051 51467 and 5 at SU84043 51467, Tony Mundell 4 Aug 2024.



Grass-poly *Lythrum hyssopifolia*, Aldershot.
Tony Mundell

***Malva neglecta* (Dwarf Mallow)** Worting SU6080 5259, several plants on road verge, Tony Mundell & Mike Marshall 26 Jul 2024. Andover Business Park (West) SU3277 4546, one plant on verge, John Moon 27 Jul 2024. Stockbridge central SU3521 4352, about 10 plants, one in flower, on verge of Longstock Road, just north of junction with High Street, John Moon 16 Oct 2024.



Dwarf Mallow *Malva neglecta*, Andover. John Moon

***Menyanthes trifoliata* (Bogbean)** Conford Moor SU818333, Cathy Wilson and Alton Natural History Society 11 Aug 2024.

***Misopates orontium* (Weasel's-snout)** Winchester SU4911 2937, one plant at southern end of graveyard, Dave Pearson 3 Aug 2024.

***Narthecium ossifragum* (Bog Asphodel)** RSPB Hazeley Heath SU7543 5824, Jane Sears 30 Jul 2024. Hazeley Heath – South SU7644 5762, a few fruiting plants in the overgrown flush with several young seedlings a few metres

down the slope in a relatively new scrape, also several seedlings on a relatively new scrape at SU76447 57649 and SU76443 57642, Tony Mundell & Peter Vaughan 19 Aug 2024. Woolmer Forest SU7949 3257, locally abundant at the north edge of a very wet track, Tony Mundell, Holly Stanworth & Bill Stanworth 10 Oct 2024.

***Omalotheca sylvatica* (Heath Cudweed)** Warren Heath, 12 plants at SU77925 58913 on the NW corner of a track junction. Also, a single outlying plant on the east side of the gravel track at SU77923 58947, Tony Mundell & Holly Stanbury 21 Aug 2024.

***Osmunda regalis* (Royal Fern)** Longmoor, SU7910 3288, a small plant in the ditch along the south edge of Range No. 2, between the 200 m & 300 m firing points, John Buckley & Jack Harper 4 Aug 2024. Fleet Pond, 6 or 7 plants at SU82478 54914, some producing spores, Tony Mundell, John Sutton & Jon Wells 22 Aug 2024. Blandford Woods, West, SU8598 5283, Steve Bailey 23 Aug 2024.

***Parentucellia viscosa* (Yellow Bartsia)** Hogmoor Inclosure SU7902 3521, at least 12 spikes, mainly now in seed, Tony Mundell & Mary Parker 13 Aug 2024. Longmoor, Liss Forest SU788296, 25 plants within 20 m, some in flower, others gone over, Bill & Chris Wain 4 Aug 2024.

***Pedicularis sylvatica* (Lousewort)** RSPB Hazeley Heath SU7557 5825, Jane Sears 30 Jul 2024. Liss Forest, Longmoor SU7941 2986, in flooded vehicle wheel ruts, Tony Mundell 9 Sep 2024. Woolmer Forest SU7942 3223, on a wet sandy track, Tony Mundell, Holly Stanworth & Bill Stanworth 10 Oct 2024.

***Persicaria minor* (Small Water-pepper)** Warren Heath SU7701 5949, three plants in a puddle on east side of track. This is further south than I have known it previously in this area, Tony Mundell & Holly Stanbury 21 Aug 2024.

***Pilularia globulifera* (Pillwort)** Fleet Pond, about 10 large patches around SU82433 55005 and SU82430 55010 in a recent scrape through the *Phragmites*, Tony Mundell, John Sutton & Jon Wells 22 Aug 2024. Eversley Common, in small quantity at eastern end of a flooded gravel pit at SU7966 5926, SU7966 5927 and SU7964 5931, Tony Mundell 10 Sep 2024.

***Polypogon monspeliensis* (Annual Beard-grass)** Crookham Common SU8265 5260, one robust clump of



Pillwort *Pilularia globulifera*, Fleet Pond. John Sutton

many stems 65cm tall on the disturbed swathe of ground where the new Esso pipeline from Southampton to Heathrow was recently installed, Tony Mundell 15 Aug 2024. Andover Business Park (west) SU3245, abundant over vacant southernmost plot of business park area, covered in flattened imported hard core, John Moon 16 Aug 2024.

***Potamogeton nodosus* (Loddon Pondweed)** Blackwater River nr. Thatcher's Ford, in the fast-flowing river for 81 m from SU74216 63469 to SU74148 63513 (although with some gaps, and only easily visible where fishermen have cleared the bank access). The dominant submerged plant across the full width of the river at SU74204 63476, Tony Mundell 18 Sep 2024.

***Potamogeton obtusifolius* (Blunt-leaved Pondweed)** Fleet Pond, in shallow water at SU82423 55020 where a scrape has recently been made through the reed beds, Tony Mundell, John Sutton & Jon Wells 22 Aug 2024.

***Potentilla anglica* (Trailing Tormentil)** Gelvert Stream, Brock's Hill, on the bank of the stream and setting good seed, so not *P. × mixta*, Tony Mundell & Dave Pearson 5 Aug 2024. Great Holt, S of Dockenfield SU8199 3950, not a hybrid, confirmed by seeds present, Tony Mundell & Cathy Wilson 20 Aug 2024. Warren Heath SU7759 5916, many plants beside track, Tony Mundell & Holly Stanbury 21 Aug 2024. Southwood SANG SU8394 5493, has good seed so not a hybrid, Tony Mundell & Mike Marshall 13 Sep 2024

***Potentilla verna* (Spring Cinquefoil)** Micheldever Spoil Heaps, E of railway SU5197 4455, at least a dozen plants here, but also found wherever there is bare chalk, Tony Mundell & Hants Flora Group 3 Aug 2024.

***Pyrola minor* (Common Wintergreen)** High speed test track, Aldershot, a small colony at SU84099 51468 in 0.5m × 0.5m on the south side of the track, with 20 rosettes and a dead seed spike with short, straight stigmas confirming identity. Several other colonies found today nearby have no flowers or fruiting spikes so could be either *P. minor* or *P. rotundifolia*. On the south side of the track at SU84228 51503, confirmed by the short stigmas on a fruiting spike. Also, a large colony at SU84229 51520 with 100+ rosettes in 5m × 3m, extending about 6m south of the trackside ditch into a hollow dominated by *Molinia*. A few dead fruiting spikes which have short, straight stigmas, so definitely *P. minor*, all Tony Mundell 4 Aug 2024

***Pyrola rotundifolia* subsp. *rotundifolia* (Round-leaved Wintergreen)** High speed test track, Aldershot, a colony at SU83929 51457 on the south side of the track, with hundreds of rosettes covering 2 × 3m and 30 flower spikes. Another colony is currently in flower in a ditch on the north side of the track and extends for 13m from SU84355 51697 to SU84360 51709. Other *Pyrola* colonies nearby at SU83972 51451, SU84231 51525, SU84189 51494, SU84147 51479 and SU84134 51474, had no flowers or persisting fruiting spikes, so need checking next year. All Tony Mundell 4 Aug 2024.

***Ranunculus ompiophyllus* (Round-leaved Crowfoot)** Gelvert Stream, Brock's Hill SU8295 5252, growing in the stream close to the surviving *Wahlenbergia hederacea*, Tony Mundell & Dave Pearson 5 Aug 2024. Shortheath Common SU7757 3667, Tony Mundell & Anna Stewart 29 Aug 2024.

***Rhynchospora alba* (White Beak-sedge)** Shortheath Common, abundant in corner of henge, superb bog at

SU77488 36572, Tony Mundell & Anna Stewart 29 Aug 2024. Woolmer Forest, many plants at SU79518 32681, SU79523 32714 and SU79523 32711, in each case growing with Marsh Clubmoss, Tony Mundell, Holly Stanworth & Bill Stanworth 10 Oct 2024.

***Roemeria hispida* (Rough Poppy)** Itchen Down SU5430 3393, four plants growing along north-east corner of arable field, Dave Pearson 4 Sep 2024.

***Rorippa amphibia* (Great Yellow-cress)** Near Thatcher's Ford SU7410 6338, many plants in the bed of the River Whitewater at the road bridge, Tony Mundell 18 Sep 2024.

***Rorippa palustris* (Marsh Yellow-cress)** Blackbushe disused airfield SU8103 5922, 3 plants in a puddle on the track, Tony Mundell 10 Sep 2024.

***Rumex cristatus* (Greek Dock)** A287 near Dare's Farm, scattered plants along 85m of roadside verge, mainly at SU8018 5026, SU8019 5026, SU8022 5025, SU8025 5024 and SU8026 5023. This road verge was recently realigned and disturbed during the construction of a new roundabout, Tony Mundell 26 Jul 2024. A339, Basingstoke, on grassy road verge, west side, at SU6078 5395 and SU6070 5404, Tony Mundell 29 Jul 2024. Heckfield SU7324 6082, still present beside the road where I have known it for many years, Tony Mundell 18 Sep 2024.

***Sagittaria subulata* (Narrow-leaved Arrowhead)** Shortheath Pond SU7753 3692, still present and in flower, though difficult to access as the local pond edge, to which it is confined, is very overgrown with scrub, Tony Mundell & Anna Stewart 29 Aug 2024.



Narrow-leaved Arrowhead *Sagittaria subulata*, Shortheath Pond. Tony Mundell

***Salix repens* (Creeping Willow)** RSPB Hazeley Heath SU7560 5825, Jane Sears 30 Jul 2024. RSPB Hazeley Heath, in a scrape at SU75578 58253, with more plants beyond the scrape at SU75575 58256, also beside a track at SU7565 5826, Tony Mundell & Peter Vaughan 19 Aug 2024. Woolmer Forest SU8006 3306, a few plants on disused track, Tony Mundell, Holly Stanworth & Bill Stanworth 10 Oct 2024.

***Sambucus ebulus* (Dwarf Elder)** Fullerton Junction SU3839, Jonty Denton 24 Aug 2024.

Scabiosa columbaria (Small Scabious) St Giles Hill SU4886 2912, on steep grass slope, Anna Stewart 21 Jul 2024. Worthy Down SU4545 3522, a single plant by path, and still several plants at SU4550 3542 but area no longer grazed so getting overgrown, Tony Mundell & David Murdoch 15 Aug 2024.

Scleranthus annuus (Annual Knawel) Edenbrook Park cycle track, only 3 plants found. A new cycle track was recently installed, removing about half of the bank that previously held many *Scleranthus* plants. 1 plant at SU78748 54769 and 2 at SU78746 54773 amongst much *Echium vulgare*. Sadly, the whole area is becoming infested with tall *Erigeron floribundus*, Tony Mundell & Mike Marshall 1 Aug 2024. Broomhurst Farm, road verge SU8125 5637, one plant only 10cm from 2 plants of *Filago lutescens*. 3m from the tarmac edge, Tony Mundell & Mike Marshall 1 Aug 2024. Slab Common, single plant in open, bare sand at SU78138 3587, Tony Mundell & Mary Parker 13 Aug 2024.



Annual Knawel *Scleranthus annuus*, Slab Common.
Tony Mundell

Silaum silaus (Pepper-saxifrage) Great Holt, S of Dockenfield SU8200 3948, at least 12 plants, Tony Mundell & Cathy Wilson 20 Aug 2024.

Silene noctiflora (Night-flowering Catchfly) Crawley SU4324 3479, single flowering plant noted. Margin cultivated winter 2023/24 after several years. *S. noctiflora* present previously, Tristan Norton 22 Aug 2024.

***Silene* × *hampeana* (Pink Campion (*S. dioica* × *latifolia*))** Micheldever SU528411, Jonathan Shanklin 21 Aug 2024.

***Sison amomum* (Stone Parsley)** Micheldever SU528411, Jonathan Shanklin 21 Aug 2024. Kingsley SU7845 3880, 5 plants beside footpath Tony Mundell & Alton Natural History Society 5 Oct 2024.

***Sison segetum* (Corn Parsley)** Worting, two plants right on arable crop edge at SU60320 52816, beside the footpath, Tony Mundell & Mike Marshall 26 Jul 2024. Norfolk House garden and adjoining Bridge Meadow SU329438, three plants on terrace – reappeared here after gap of 12 years, John Moon 8 Aug 2024.

***Solanum nitidibaccatum* (Green Nightshade)** Slab Common, One plant at SU78131 35880, one at SU78127 35885 and one at SU7817 3589. Definitely keys to *S. nitidibaccatum* and not *S. sarrachoides*, Tony Mundell & Mary Parker 13 Aug 2024.

***Solidago virgaurea* (Goldenrod)** Liss Forest, Longmoor SU7861 2965, 10 flower spikes on SE side of the main track, Tony Mundell 9 Sep 2024. Blackbushe disused airfield SU8078 5923, two flower spikes, growing with *Hieracium umbellatum*, Tony Mundell 10 Sep 2024.

***Spergularia rubra* (Sand Spurrey)** Warren Heath, a few plants beside track at SU7757 5916 and on a raised gravel bund at SU7779 5913, Tony Mundell & Holly Stanbury 21 Aug 2024.

***Stellaria aquatica* (Water Chickweed)** Near Thatcher's Ford SU7414 6338, on the wet road verge on the north side, Tony Mundell 18 Sep 2024.

***Stratiotes aloides* (Water-soldier)** Oakley Park pond, Fleet, the pond is now dreadfully shaded by overhanging trees and shrubs, leading to the loss of Frogbit, but a few plants of Water Soldier are just hanging on at SU8151 5412 and SU8153 5413, Tony Mundell 28 Aug 2024.

***Symphyotrichum lanceolatum* (Narrow-leaved Michaelmas-daisy)** Eversley Common, about 100 flowering plants at SU79347 59292 with a few outliers at SU7936 5929 and SU7934 5929, Tony Mundell 10 Sep 2024. Kingsley SU7879 3819, in Kingsley Pond car park, Tony Mundell with Alton Natural History Society 5 Oct 2024.

***Symphyotrichum* × *salignum* (Michaelmas Daisy *S. lanceolatum* × *novi-belgii*)** Kingsley SU7879 3819, in Kingsley Pond car park, Tony Mundell with Alton Natural History Society 5 Oct 2024.

***Symphytum orientale* (White Comfrey)** Andover Business Park (West) SU3245 John Moon 27 Jul 2024.

***Teucrium botrys* (Cut-leaved Germander)** Micheldever Spoil Heaps, E of railway SU5197 4448, a dozen plants on bare steep chalk slope, in flower or going over, Tony Mundell & Hants Flora Group 3 Aug 2024.

***Trifolium resupinatum* (Reversed Clover)** Micheldever Spoil Heaps, W of railway SU5185 4422, two plants in arable field margin. More plants also found extending further north in this margin, so presumably a seed contaminant, Tony Mundell & Hants Flora Group 3 Aug 2024.

***Utricularia australis* (Bladderwort)** Blackmoor SU7887 3345, with the aid of binoculars, counted 56 flower spikes, John Buckley 11 Aug 2024.

***Vaccinium oxycoccos* (Cranberry)** Shortheath Common, locally abundant and fruiting well in a 10m patch of surviving bog centred on SU77417 36788 with another similar 10m patch of it centred on SU77406 36780. Also, now just accessible from the footpath around the pond at the bog edge at SU77444 36828, as much Birch and scrub has been cleared. Abundant in a huge expanse of treacherous superb bog. At the bog edge at SU77488 36572 some patches covering 1m tall mounds (ant-hills?) are in fruit, with other patches in full flower, all Tony Mundell & Anna Stewart 29 Aug 2024.



***Utricularia australis* (Bladderwort), flowers and bladders.** Tony Mundell

***Verbascum blattaria* (Moth Mullein)** Andover Business Park (West) SU3245, about 10 plants scattered around banks and verges, including one 2.5m high, John Moon 27 Jul 2024.

***Verbascum chaixii* (Nettle-leaved Mullein)** New Alresford SU5735 3275, one plant in flower on grass verge by entrance to vineyard. Base of basal leaves rounded/truncate, petioles about as long as calyx. Identified by Tony Mundell from photos, Dave Pearson 6 Sep 2024.

***Verbascum virgatum* (Twiggy Mullein)** Blackbushe disused airfield SU8102 5899, by the footpath, up against the fence of the active part of the airfield, Tony Mundell 10 Sep 2024.

***Verbena bonariensis* (Argentinian Vervain)** Andover Business Park (West) SU3245, scattered on vacant plot, John Moon 27 Jul 2024.

***Veronica scutellata* var. *scutellata* (Marsh Speedwell)** Pondtail Heath SU8289 5358, in a damp area that formerly had Pillwort, Tony Mundell 16 Sep 2024. Woolmer Forest, in puddle at SU80359 32013 on mown ride, Tony Mundell, Holly Stanworth & Bill Stanworth 10 Oct 2024.

***Wahlenbergia hederacea* (Ivy-leaved Bellflower)** Gelvert Stream SU8296 5252, many flowering plants on the stream bank, in a patch 4 m x 3 m, Tony Mundell & Dave Pearson 5 Aug 2024 (see photo on front cover).



Nettle-leaved Mullein *Verbascum chaixii*, Alresford. Dave Pearson

***Zannichellia palustris* (Horned Pondweed)** Fleet Pond, in shallow water at SU82423 55020 where a scrape has recently been made through the reed beds, Tony Mundell, John Sutton & Jon Wells 22 Aug 2024.

The Hampshire and Isle of Wight Wildlife Trust's Flora Group aims to monitor status and promote conservation of the flora of the two counties and develop skills of those members interested in flora.

This edition of *Flora News* was put together by Catherine Chatters and John Norton. The views expressed by contributors to *Flora News* are not necessarily those of Hampshire & Isle of Wight Wildlife Trust. Many thanks to everyone who contributed. If you have any comments or would like to submit an article for inclusion in a future issue please contact:

Catherine Chatters, Flora Group Secretary

Ivy Cottage, Ashurst Bridge Road, Totton, Southampton SO40 7EA

Tel: 023 8086 3920, email: Catherine.Chatters@hiwwt.org.uk

When submitting photographs or illustrations for articles please include a small (reduced) version of the image in the article above its caption and send larger versions (no more than 5MB) directly to John Norton (john@jnecology.uk). Please include details of each image in its filename.

The Hants Plants website provides news and resources for anyone with an interest in Hampshire botany and acts as a hub for all plant recording activities in the two Hampshire vice-counties. If you would like to send in your plant records, please see the Hants Plants website for further information, including a downloadable form for rare plants for use in the Threatened Plants Project and a link to Living Record for bulk recording, or contact your relevant BSBI Vice-county Recorder:

VC11: Tristan Norton

Tel: 07443 519188, email: vc11recorder@hantsplants.net

VC12: Tony Mundell

38 Conifer Close, Church Crookham, Fleet GU52 6LS

Tel: 01252 614516, email: vc12recorder@hantsplants.net

hantsplants.uk



If you would like to join Hampshire & Isle of Wight Wildlife Trust and become a member of the Flora Group, please visit our website for further details: www.hiwwt.org.uk. Flora Group members are welcome to join the Hampshire Flora Group Facebook group. Search for Hampshire Flora Group and click the Join button.



**Hampshire &
Isle of Wight
Wildlife Trust**



Hampshire & Isle of Wight Wildlife Trust
Beechcroft House, Vicarage Lane, Curdridge, Hampshire SO32 2DP
Company Limited by guarantee and registered in England and Wales No. 676313
Registered Charity No. 201081