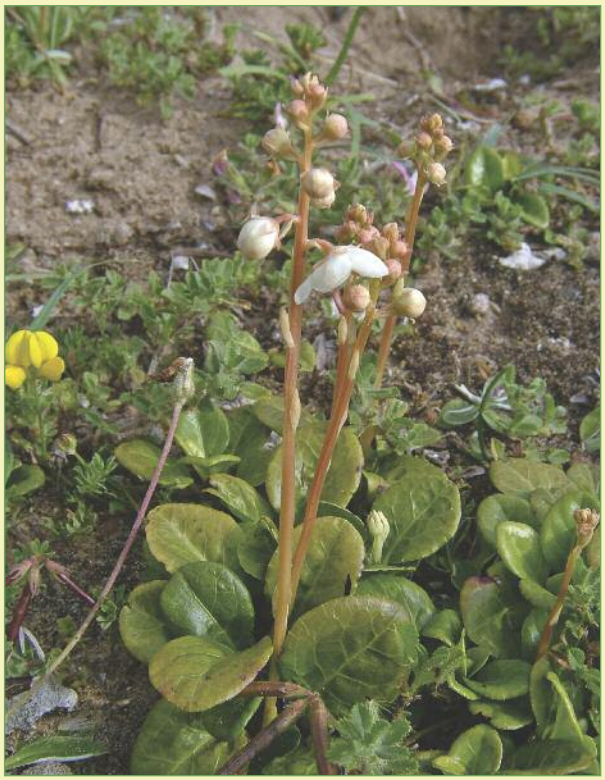
● ***Pyrola rotundifolia*** L.
Round-leaved Wintergreen
subsp. *maritima* (Kenyon) E.F.Warb.
Very rare. Nationally Scarce. Native. Drier fringes of wet dune slacks. Well known from Braunton Burrows where it was first reported by *F.R.Elliston Wright* in 1962. The report of a wintergreen in the Bideford area by Pike (1755) has never been accepted (Flora).
Flora p.445, Atlas p.124 (2), 1987 onwards (4).

VC4
SS43 Braunton Burrows, 1962, eight plants in 1964, *F.R.Elliston Wright* (DA 1966, **LIV**). It has been recorded in the main dune system many times since then and is now locally common in SS4533, SS4535, SS4534, SS4435, SS4436 and SS4573, *J.J.Ison*, *NDBG*. It has been seen once in the White House area of Braunton Burrows, SS4632, 1987, *DAB*.



Ivybridge area, 1858, H.A.Box (Ravenshaw 1860). The site near Burlescombe was destroyed by road building in 1967. Uffculme is a little to the south west of here and is, presumably, the same site.
Flora p.445, Atlas p.124.

VC3
ST01 Uffculme, 1944, *F.F.Laidlaw* (**TOR**); Maiden Down near Burlescombe, 1947, *R.C.L'Estrange Burges* (**BIRM**); woodland near Burlescombe, ST083162, 1964, *J.F.Archibald* (BSBI Atlas).

● ***Pyrola rotundifolia*** L. – see panel above

● ***Hypopitys monotropa*** Crantz
Yellow Bird's-nest
subsp. *hypophegea* (Wallr.) Tzvelev
Very rare. Nationally Scarce. Endangered on the British Red List. Native. A perennial parasite of *Tricholoma* fungus species (Bidartondo & Bruns 2002) found amongst leaf litter in shaded woodlands. Reported sporadically from the Pinhay Cliff area of the Axmouth – Lyme Regis Undercliffs National Nature Reserve. In North Devon it was very locally frequent below willows on a former industrial site now lost to re-development.
Atlas p.124 as *Monotropa hypopitys* L. (1), 1987 onwards (2).

VC3
SY39 Pinhay cliff below *Fagus sylvatica*, SY3190, 1961 and 1962, *J.E.Carpenter* det. *T.J.Wallace* (DA 1963); SY308903, 1968, *D.J.Allen*; in two places on the undercliff, SY3190, *N.Barns*, 1994 (DA 1995); SY312904, 1997 and SY310903, 2011, *D.J.Allen*. Near Humble Pond, SY306901, *D.Campbell* (DA 1995). Six plants on Pinhay Cliffs, SY314906, 2013, *D.J.Allen*.

VC4
SS43 Tetrad record, SS4238, 1969, *A.P.S.Hamilton* (Atlas). Under *Salix cinerea* on the site of Yelland Power Station, SS482326, 1997, *P.Mullen & W.H.Tucker*; 1999, *W.H.Tucker & R.E.N.Smith* (DA 2000).

Garryaceae

● ***Aucuba japonica*** Thunb.
Spotted Laurel
Rare. Introduced, a neophyte; native in Japan. Commonly planted in gardens but rarely self-seeding, and sometimes found as a garden throw-out.
1987 onwards (25).

VC3
SX45 Ham Woods, a relic of cultivation, SX4657, 2007, *P.D.Pullen.* Plymouth, Honicknowle, a garden

Yellow Bird's-nest *Hypopitys monotropa*

throw-out, SX4656, 2007, *P.D.Pullen*. Plymouth, Manadon, perhaps self-sown, SX479582, 2011, *P.D.Pullen*. Mannamead, perhaps self-sown, tetrad SX4856, 2007, *P.D.Pullen*.

SX47 Tavistock, on old railway, SX4774, 2008, *P.D.Pullen*.

SX55 Dunstone, a garden throw-out, tetrad SX5850, 2008, *P.D.Pullen*.

SX65 Ivybridge, by River Erme, SX636564, 2007, *P.D.Pullen*.

SX96 Lincombe Drive, Torquay, SX9363, 2007, *I.Lakin*. Near Anstey's Cove, SX9364, 2009, *P.D.Pullen*.

VC4

SS42 Westward Ho!, by footpath, SS427288, 2008, *R.M.H.Hodgson*.

Also recorded from **VC3**: **SX46**, **SX54**, **SX73**, **SX74**, **SX85**, **SX89**, **SX98**, **SY08**, **SY09**, **SY18**, **SY19**, **SY29**, **ST10**, **ST11**, **ST20** (BSBI Atlas).

Rubiaceae

● ***Sherardia arvensis*** L.
Field Madder – **Map 347**
Frequent. Native. Widely distributed in Devon, mainly on lighter soils, in arable fields, waste ground, dry grassland, verges and lawns. Commoner near the coasts, especially in the south. Now much more widespread in South Devon than when the Atlas was published in 1984.
Flora p.377, Atlas p.161 (270), 1987 onwards (425).

● ***Phuopsis stylosa*** (Trin.) Benth & Hook. f. ex B.D.Jacks.
Caucasian Crosswort
Very rare. Introduced, a neophyte; native in the Caucasus and Iran. A mat-forming perennial grown in gardens from where it sometimes escapes. Waste ground, tips, verges and banks. Usually casual but sometimes naturalised.
1987 onwards (3).

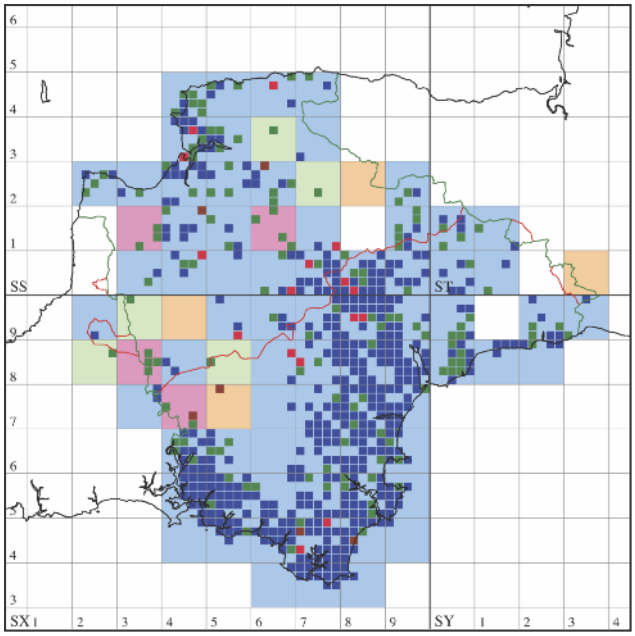
VC3

SX45 Drake's Roundabout, Plymouth, SX4754, 1999, *A.Lewis* (DA 2000).

SX76 Staverton, SX7863, 1963 and 1983, *W.H.Tucker* (DA 1964). Harberton, on railway bank at Whitely, SX7760, 1948, *E.N.Masson-Phillips* (DA 1964).

Squinancywort *Asperula cynanchica*

Map 347. *Sherardia arvensis* (Field Madder)



SX95 Churston Ferrers, SX9056, 1962, *C.E.Hicks* (DA 1963, **LIV**).

SY29 Combpyne, SY2992, 1998, *L.J.Margetts & L.M.Spalton* (DA 1999).

SS90 On a wall at Bickleigh, SS9307, 1994, *L.J.Margetts & L.M.Spalton* (DA 1995).

Also recorded from **VC3**: SX85 (BSBI Atlas).

● ***Asperula cynanchica*** L.
Squinancywort
Very rare. Native. Short calcareous grassland, now confined to Berry Head and the East Devon coast.
Flora p.377, Atlas p.161 (8), 1987 onwards (6).

VC3

SX77 Bickington, tetrad SX7872, 1977, *M.F.Spooner* (Atlas).

SX87 Newton Abbot, tetrad SX8470, 1981, *K.Jefferies* (Atlas).

SX95 Fishcombe Point, 1936, *G.T.Fraser* (Flora). Berry Head, *E.Parfitt* (Flora); *G.H.Douglas*, 1927 (**TOR**); near the lighthouse, SX947566, 1997, *R.E.N.Smith*; regularly near the South Fort SX940560, 1971, *R.B.Ivimey-Cook* (Atlas); 2012, *R.M.H.Hodgson*.

SX96 Warberry Hill, Torquay, *R.Stewart* (Stewart 1860).

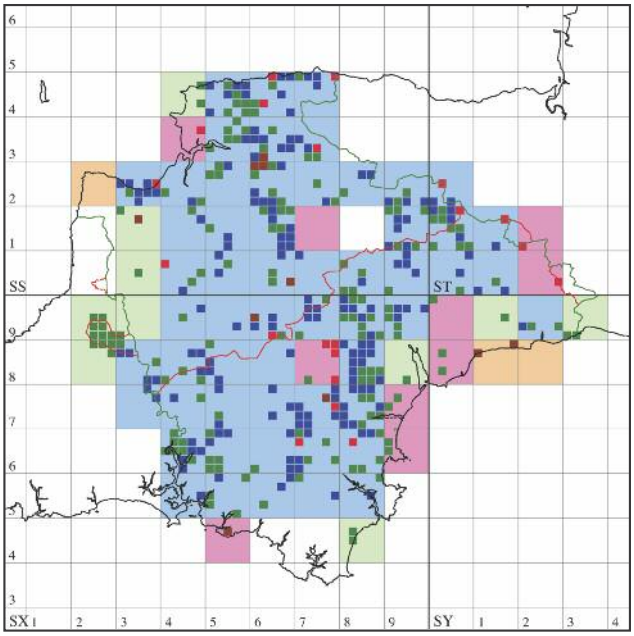
SY28 Beer Head, 1862, *M.G.Watkins*; Beer, 1928, *R.Orme* (DA 1928); tetrad SY2288, 1972, *W.H.Tucker*; Beer Head, SY226879, 2013, *R.E.N.Smith*. Axmouth, on the undercliff, *W.H.Cullen* (Cullen 1849). Tetrad SY2688, 1969, *T.J.Wallace* (Atlas); Goat Island, SY275895, 1994, *D.J.Allen*. Tetrad SY2888, 1969, *T.J.Wallace* (Atlas); The Plateau, SY294897, 2011, *D.J.Allen*.

SY29 Bindon, SY2790, 1954, *anon*. (Atlas).

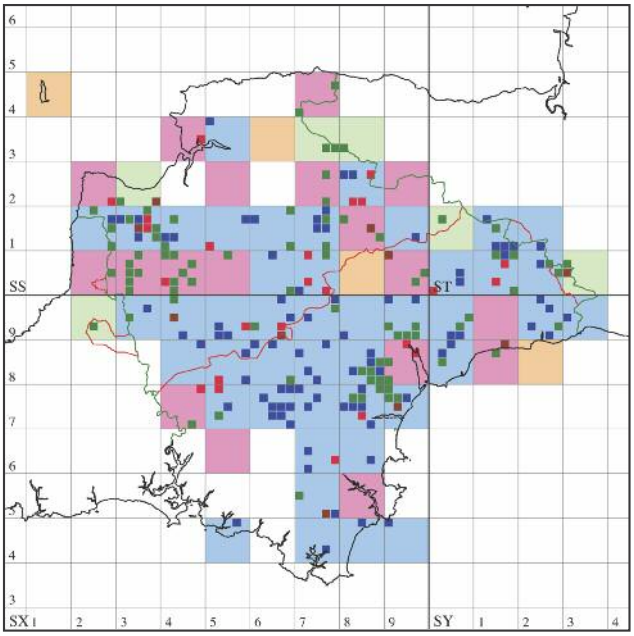
SY39 Pinhay cliffs, *J.Jacob* (Jones & Kingston 1829). Lynch Cottage, Whitlands, SY309907, 2005, *C.J.Smith*.

Also recorded from **VC3**: SY08, **SY18** (BSBI Atlas).

Map 348. *Galium odoratum* (Woodruff)



Map 349. *Galium uliginosum* (Fen Bedstraw)



● ***Asperula arvensis*** L.
Blue Woodruff
Extinct. Introduced, casual; native in southwest Asia. Arable fields and waste tips.
Flora p.377, Atlas p.161, 1987 onwards (0).

VC3
SX55 Saltram, by Longbridge, 1830 and 1836, *C.A.Johns* (**PTH**) but gone by 1841 (Hore 1842, Briggs 1880).
SX73 Salcombe, 1924, *H.B.Guppy* (DA 1924).

VC4
SS22 Hartland, 1958, *Mrs. Hobbs* det. *BSBI* (DA 1959).

● ***Galium odoratum*** (L.) Scop.
Woodruff – **Map 348**
Frequent. Native. In woodland and on hedgebanks, usually on more base-rich soils.
Flora as *Asperula odorata* L. p.377, Atlas p.161 (277), 1987 onwards (184).

● ***Galium uliginosum*** L.
Fen Bedstraw – **Map 349**
Frequent. Native. Base-rich marshes and fens, much less common than Marsh Bedstraw. Frequent around Dartmoor and on the Culm Measures. Scattered in other areas but rare in the South Hams.
Flora p.375, Atlas p.161 (109), 1987 onwards (113).

● ***Galium constrictum*** Chaub.
Slender Marsh-bedstraw
Extinct. Nationally Rare. Native. Seasonally wet, basic, nutrient-rich soils by ponds. It used to occur around old clay works pools in the Chudleigh Knighton area of the Bovey Basin where it was once locally plentiful. It was lost soon after 1967 following large scale earth moving for ball clay quarrying. The Devon population was an outlier from the principal British populations in the New Forest, Hampshire. The earliest record appears to be a specimen collected by C.E.Parker in 1851 kept at **TOR**, originally named as *G. saxatile*, but subsequently determined as this species by C.E.Britton. Fresh specimens gathered in the early 1930s and others kept at **TOR** and **BM** have also been determined as this species by Britton and R.F.Towndrow (Flora).
Flora as *Galium debile* Desv. p.375, Atlas as *G. debile* Desv. p.163, 1987 onwards (0).

VC3
SX87 Chudleigh Knighton, 1851, *C.E.Parker* det. *C.E.Britton* (Flora, **TOR**); 1931, *F.M.Day* (Druce 1932, DA 1933); 1935 and 1936, *G.T.Fraser* (**TOR**, **BM**); 1941, *B.L.Hancock* (Hancock 1941); 1957, *O.Greig* det. *W.K.Martin* (**RAMM**); Huish Cross, 1965, *M.C.F.Proctor*; 1967, *M.C.Hockaday.*

● ***Galium palustre*** L.
Common Marsh-bedstraw
Common. Native. Marshy areas, wet meadows, ditches, fens and by ponds and lakes, preferring slightly acid areas. Widespread in the county including open moorland on Dartmoor where it has been found amongst *Juncus effusus* up to 550 metres above West Okement Head. Both recognised subspecies have been recorded in Devon. In the past most plants, including the Atlas records, were reported as subsp. *palustre* though subsp. *elongatum* is said to be the commoner (Stace 2010). Most recent records do not differentiate between the two.
Flora p.374, Atlas p.162 (888), 1987 onwards (731).

subsp. *palustre*
Recorded throughout during the BSBI Atlas survey between 1987 and 1999.

subsp. *elongatum* (C.Presl.) Arcang.
A more robust plant than subsp. *palustre*. Recorded from 11 hectads in VC3 and four in VC4 during the BSBI Atlas survey between 1987 and 1999. If older records are

included, it appears to be more widespread in both vice-counties than these few records suggest.
Flora as *Galium palustre* var. *elongatum* Presl. p.375, Atlas as *G. elongatum* C.Presl p.162, 1987 onwards (13).

● ***Galium verum*** L.
Lady's Bedstraw – **Map 350**
Frequent. Native. Rather common in coastal grasslands and fixed dunes. Also found on neutral to calcareous soils in inland pastures and hay-meadows, where it has declined due to agricultural improvement.
Flora p.372, Atlas p.162 (164), 1987 onwards (114).

● ***Galium* × *pomeranicum*** Retz.
G. verum × *G. album*
Hybrid Yellow Bedstraw
Very rare. Native. A locally abundant and often persistent hybrid known, mainly, from the south coast, usually with both parents.
Flora p.374, Atlas p.162 (2), 1987 onwards (7).

VC3

SX44 On low cliff edge between Wembury and Bovisand, 1865, *T.R.A.Briggs* (Briggs 1880). Heybrook Bay, SX4948, 1999, *I.J.Bennallick*; 2009, *G.Waterhouse*.

SX45 Plymouth, near Saltash Road, 1865, *T.R.A.Briggs* (Briggs 1880).

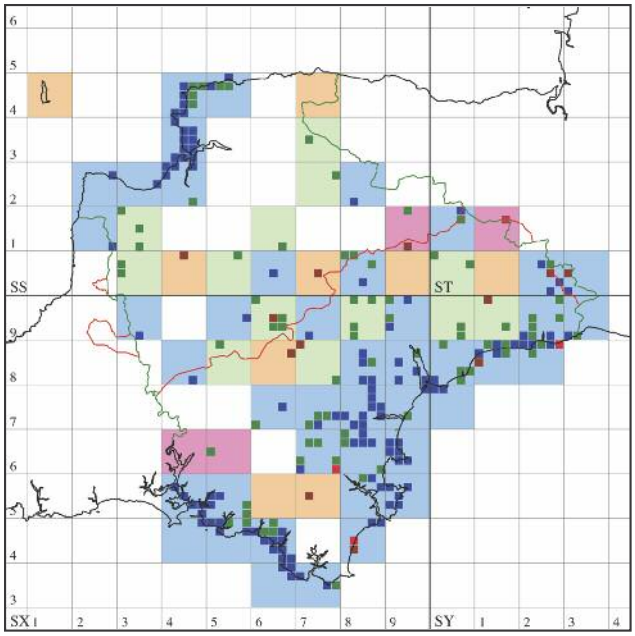
SX54 Wembury, near Yealm Ferry, 1875, *T.R.A.Briggs* (Briggs 1880). By the sea at Revelstoke, 1875, *T.R.A.Briggs* (Briggs 1880).

SX63 Bolt Tail, SX670395, 1974, *J.Rogerson* det. *F.H.Perring*. Whitechurch, near Bolt Tail, SX6739, 2006, *P.J.Reay*.

SX64 Meadowsfoot Cove, Mothecombe, 1873, *T.R.A.Briggs* (Briggs 1880, **CGE**). Abundant and very variable on sands around Bigbury, Bantham and Thurlestone, 1895, *E.S.Marshall* (Marshall 1895, **BM**). Bantham, 1934, *G.T.Fraser* (Flora); SX663468, 1978 and 2009, *G.Waterhouse*. On sand at Thurlestone Rock, SX677415, 1999, *A.Newton* (DA 1999); 2006, *R.E.N.Smith*. Thurlestone, SX668426, 1992 and 2009, *R.E.N.Smith & C.J.Smith* (DA 1993).

Lady's Bedstraw *Galium verum*

Map 350. *Galium verum* (Lady's Bedstraw)



SX84 Slapton and Stokenham, 1928, *C.E.Larter* (DA 1928); several colonies, 1937, *G.T.Fraser* det. *C.E.Britton* (**TOR**). Slapton Line, SX8243, 1963, *F.H.Perring* (BSBI Atlas, **CGE**); 1999, *J.F.D.Scott* (DA 2000); 2009, *G.Waterhouse*. Beesands, 1937, *G.T.Fraser* (**TOR**).

SX85 1963, *G.Crompton* (BSBI Atlas).

SX87 Chudleigh Rocks, *W.M.Rogers* (Rogers 1882a).

SX88 New Cut, Trusham, 1880, *W.M.Rogers* (Rogers 1882a, **ABS**, **MANCH**).

SX95 Berry Head, SX9456, 1918, *M.Cobbe* (Druce 1919); 1927, *E.D.Morgan* (DA 1927).

SX96 Barton and St. Marychurch, Torquay, *C.E.Larter* (Flora, **TOR**, **RAMM)**. Larter's specimen from St. Marychurch is confirmed, the one collected at Petit Tor (**TOR)** is indet., *L.J.Margetts*.

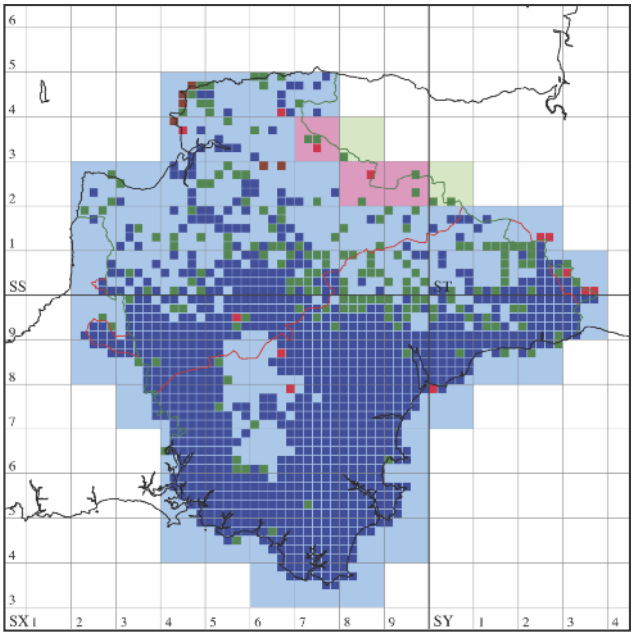
SY08 Cliffs at High Land of Orcombe, SY029798, 1977, *W.H.Tucker* (DA 1978).

SY18 Berry cliffs, SY193881, 1967, *D.C.Prowse*.

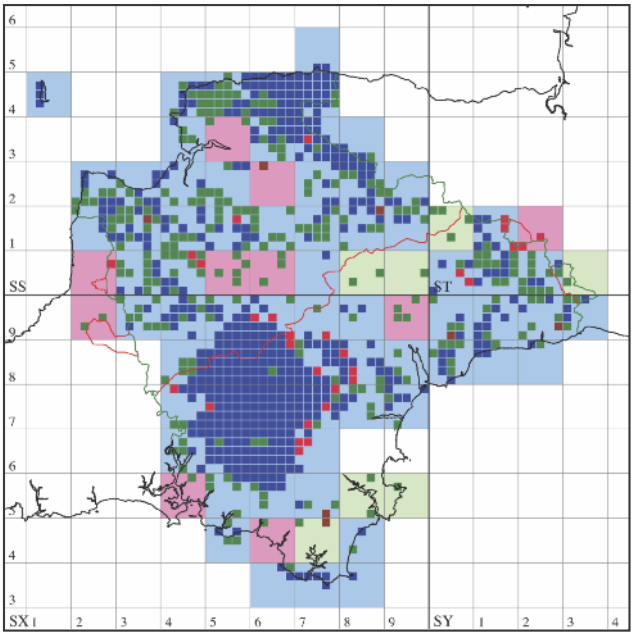
SY28 Beer, 1936, *H.H.Harvey* (DA 1936). Steep roadside slope between Beer and Seaton SY2389, 1990, *L.J.Margetts* (DA 1991). Seaton cliffs, SY2689, 1989, *J.A.S.Newman* (DA 1990).

● ***Galium album*** Mill.
Hedge Bedstraw – **Map 351**
Common. Native. Well-drained grasslands, roadsides, railway embankments, hedgebanks, woodland edges and scrub preferring slightly base-rich soils. It is very common in South Devon, except on Dartmoor, but rather rare in most of North Devon. Recognition of *G. mollugo* subsp. *mollugo* and *G. mollugo* subsp. *erectum*, usually known as *G. mollugo* L. and *G. album* Mill., is of questionable value (Stace 2010).
Flora as *Gallium mollugo* L. and *Galium erectum* Huds. p.373, Atlas as *G. mollugo* L. and *G. album* p.162 (977), 1987 onwards (862).

Map 351. *Galium album* (Hedge Bedstraw)



Map 352. *Galium saxatile* (Heath Bedstraw)



● ***Galium saxatile*** L.
Heath Bedstraw – **Map 352**
Frequent. Native. Acid grassland, heaths, moors and on sea cliffs. Very common in the Dartmoor and Exmoor areas but less so elsewhere in the county. Perhaps declining around the edges of its core range.
Flora p.374, Atlas p.162 (683), 1987 onwards (485).

● ***Galium aparine*** L.
Cleavers, Goosegrass
Very common. Native. Hedgerows, scrub, waste ground and cultivated land. Abundant everywhere except on the high moors.
Flora p.376, Atlas p.163 (1674), 1987 onwards (1495).

● ***Galium spurium*** L.
False Cleavers
Extinct. Introduced, a neophyte; native in Europe. Casual in Devon, reported in two successive years at Teignmouth.
Flora as *Galium vaillantii* DC. p.376, 1987 onwards (0).

VC3
SX97 Teignmouth, 1909, *E.S.Marshall* (BSBI Atlas, **CGE**); casual on waste ground by the estuary at Teignmouth, 1910, *A.H.Wolley-Dod* (DA 1910).

● ***Galium tricornutum*** Dandy
Corn Cleavers
Extinct. Nationally rare. Critically Endangered on the British Red List. Introduced, an archaeophyte. A cornfield weed which always seems to have been rare in Devon, with most records from the Plymouth area. British populations have declined generally due to intensification of agriculture and there have not been any records in Devon for almost 100 years.
Flora as *Galium tricorne* Stokes p.376, Atlas p.163, 1987 onwards (0).

VC3
SX54 Among mangel-wurzel at Bridgend, 1875 and plentiful in oats field near Creacombe, 1873, *T.R.A.Briggs* (Briggs 1880).
SX55 One plant in a field at Down Thomas, 1865, between Wembury and Brixton, 1870, between Puslinch and Wrescombe, 1873 and a few plants with Mangel-wurzel between Goodamoor and Lutton, 1879, all *T.R.A.Briggs* (Briggs 1880, **BM**).
SX56 One plant in a field at Common Wood, Plymouth, 1867, *T.R.A.Briggs* (Briggs 1880). Dousland Grange, 1902, *A.O.Hume* (**SLBI**).
SX64 Thurlestone, 1909, *W.P.Hiern* (DA 1909).
SX76 Buckfastleigh, *A.F.Jennings* (Flora).
SX88 An occasional colonist of cultivated ground at Ashton and Trusham, *W.M.Rogers* (Rogers 1882a).
SX95 Berry Head, SX9456, 1901, *C.E.Larter*.
SX96 St. Marychurch, Torquay, 1915, *C.E.Larter* (DA 1915).
SY39 On the landslip at Pinhay, 1892, *E.Vaughan* (BSBI Atlas, **BM**).

VC4
ST01 Sampford Peverell, 1931, *G.R.A.Watts* (DA 1931).

Also recorded from **VC3**: SX43, SX77 (BSBI Atlas).

Hybrid Yellow Bedstraw *Galium* x *pomeranicum*

● ***Galium parisiense*** L.
Wall Bedstraw
Rare. Nationally Scarce. Vulnerable on the British Red List. Native. An annual of old walls, sandy areas, railway sidings and other open areas. During the Atlas survey it was recorded only at Saunton (VC4). Although no longer present there, it has since been found and appears to be spreading in VC3, where it has been recorded at a number of new sites. These include several sites in the Plymouth area, where it was not found during the intensive survey conducted by Stevens *et al.* (Stevens 1990), and at Dawlish Warren.
Atlas p.163 (1), 1987 onwards (12).

VC3

SX45 Bare ground at Plymouth Airport, SX498599, 2005, *P.D.Pullen*.

SX55 Footpath at Marsh Mills, SX519564, 2006, *P.D.Pullen*. Edge of tip at Chelston Meadow, SX5254, 2007, *I.Lakin*. Old railway sidings at Marsh Mills, SX523564, 1997, *R.A.Stevens* (DA 1998). Roadside at Marsh Mills, SX5256, 2010, *P.D.Pullen*. Plympton Ridgeway, SX559555, 2006, *P.D.Pullen*. One plant in wall crevice at Plympton, SX561556, 2008, *P.D.Pullen*. Roadside bank at Langage, SX563560, 1997, *R.A.Stevens* (DA 1998). By Langage Science Park, SX567563, 2008, *P.D.Pullen*.

SX75 Dry bank at Lisburne Farm, SX729598, 2014, *P.J.Reay* (DA 2015, **RENS**).

SX78 Slopes above River Teign near Clifford Bridge, SX785894, 2014, *N.Baldock* det. *R.E.N.Smith* (DA 2015).

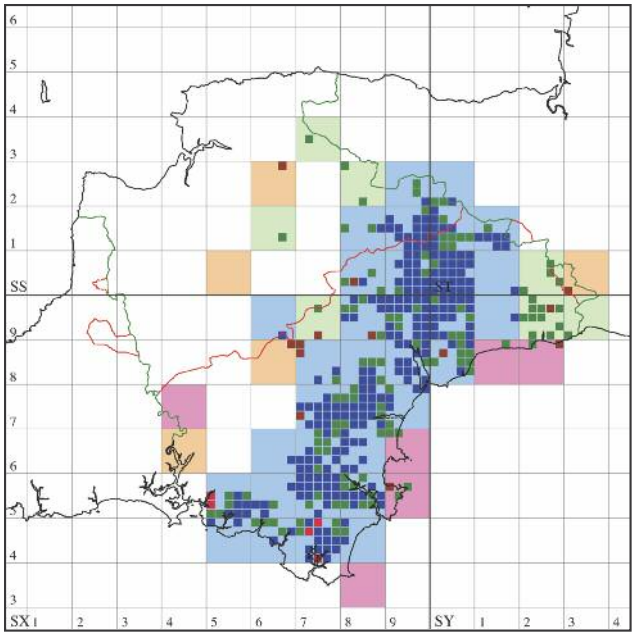
SX87 Casual at Highweek, SX846717, 2006, *R.E.N.Smith & C.J.Smith* (DA 2007).

SX96 In pavement cracks at Ilsham Marine Drive, Torquay, 1977, SX940633, *M.Pool* (DA 1978), last seen there 1994, *R.E.N.Smith & C.J.Smith*. About 50 tiny plants in short species-rich turf on south facing verge, Ilsham Marine Drive, 2002, SX941632, *A.J.Byfield* (DA 2003).

SX97 Locally frequent at Dawlish Warren, SX9878, 2002, *N.F.Stewart*; several plants, SX983789, 2014, *R.E.N.Smith*.

Crosswort *Cruciata laevipes*

Map 353. *Cruciata laevipes* (Crosswort)



SX98 Old sidings, Exminster Marsh Reserve, SX954870, 2002 and 2007, *K.Rylands*.

SX99 In three places at Honiton Road Park and Ride car park, Exeter, SX963927 and SX965927, 2014, *D.C.G.Cann* (DA 2015).

VC4

SS43 On steeply sloping rough ground in two adjoining fields above the sea cliffs, Saunton Down, SS435381, 1954, *Mrs. Adye & C.M.A.Cadell* det. *A.R.Clapham* (**NMW**); re-appeared in 1965 following ploughing in 1960, *M.Tulloh* (DA 1966).

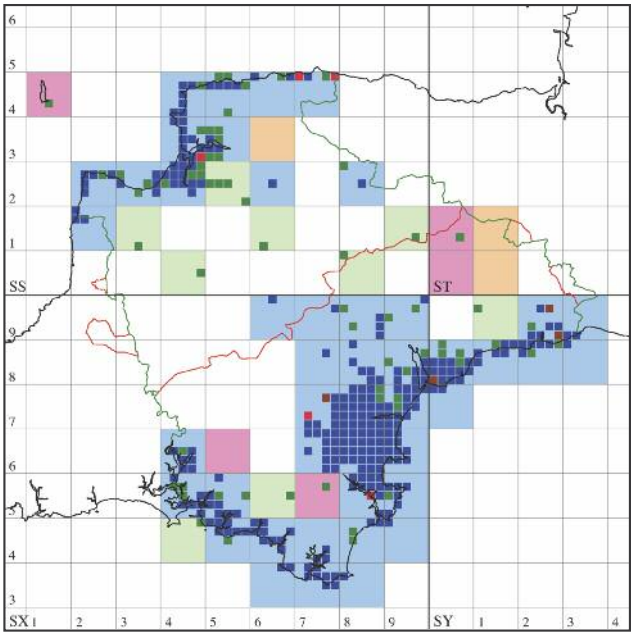
● ***Cruciata laevipes*** Opiz
Crosswort – **Map 353**
Locally frequent. Native. Roadsides, hedgebanks, waste ground and amongst scrub on neutral to calcareous soils. It is quite common in south and southeast Devon where it reaches the edge of its native English range at Plymouth. Rare or unknown in most of the north and west.
Flora as *Galium cruciata* (L.) Scop. p.371, Atlas as *Galium cruciata* (L.) Scop. p.163 (297), 1987 onwards (242).

● ***Rubia peregrina*** L.
Wild Madder – **Map 354**
Locally frequent. Native. In scrub, hedges, cliffs, rocky places and woodland. Mainly coastal but extends some way inland in the Torbay and Newton Abbot areas, especially on calcareous soils.
Flora p.371, Atlas p.163 (259), 1987 onwards (261).

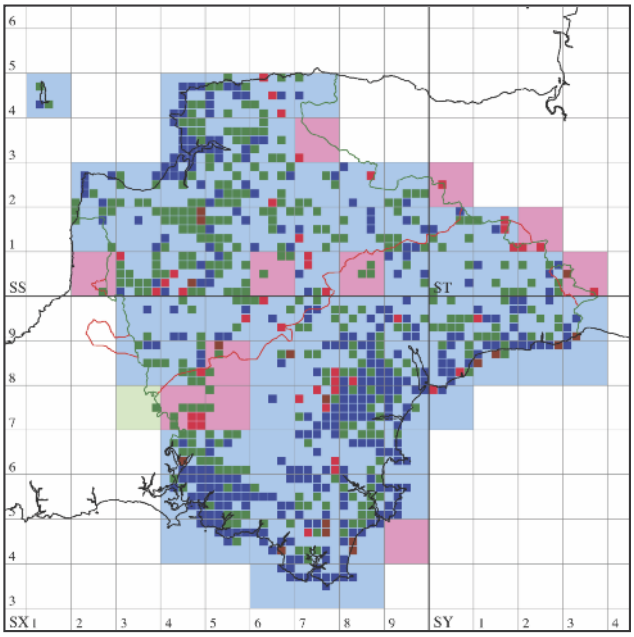
Gentianaceae

● ***Cicendia filiformis*** (L.) Delarbre
Yellow Centaury
Very rare. Nationally Scarce. Vulnerable on the British Red List. Native. Damp sandy tracks on heathland. There is uncertainty regarding early records from South Devon.

Map 354. *Rubia peregrina* (Wild Madder)



Map 355. *Centaurium erythraea* (Common Centaury)



The first record is listed as 1778 (Flora) based on entries in Polwhele (1797) and Hudson (1878). Polwhele quotes a Mr. Younge of Puslinch, near Yealmpton, saying it was more frequent in Devon than in any other county. The Flora authors suggest it was probably based on a real but restricted experience. It is also listed, as *Exacum filiforme*, by Jones & Kingston (1829) as "mentioned by Mr. Stackhouse as frequent in bogs in Devon" though Hore (1842) thought Stackhouse had mistaken it for some other plant. Ravenshaw (1880) also questions the records but adds two of his own as a footnote! There are no other records from South Devon.

In North Devon, in September 1883, T.R.A.Briggs "found plants at two spots between Pyworthy and North Tamerton, on the Devon side of the Tamar" and "sparingly on the southwest corner of Affaland Moor near Ford Mill and for 20-30 yards in a roadside ditch between the moor and Pyworthy Village" (Rogers 1883c, 1886). It could not be found by 1939 (H.H.Harvey, Flora). In 1973 W.H.Tucker found a new site a little further north on the track at Meddon Green. This population fluctuates and is probably dependent on the degree of disturbance but was still there in 2003.
Flora p.455, Atlas p.130, 1987 onwards (1).

VC4

SS21 About 15 plants at Meddon Green, SS277177, 1973, *W.H.Tucker* (DA 1974, **LIV**); 50+ plants, 1991; 50+ plants, 1994; 300+ plants, 2000; 15 plants, 2001, *W.H.Tucker*; still present but site overgrown, 2003, *R.M.H.Hodgson*.

SS30 Affaland Moor and between the moor and Pyworthy, 1883, *T.R.A.Briggs* (Rogers 1883c, 1886, **MANCH**); 1885, probably *W.M.Rogers* (Flora, **PLY**).

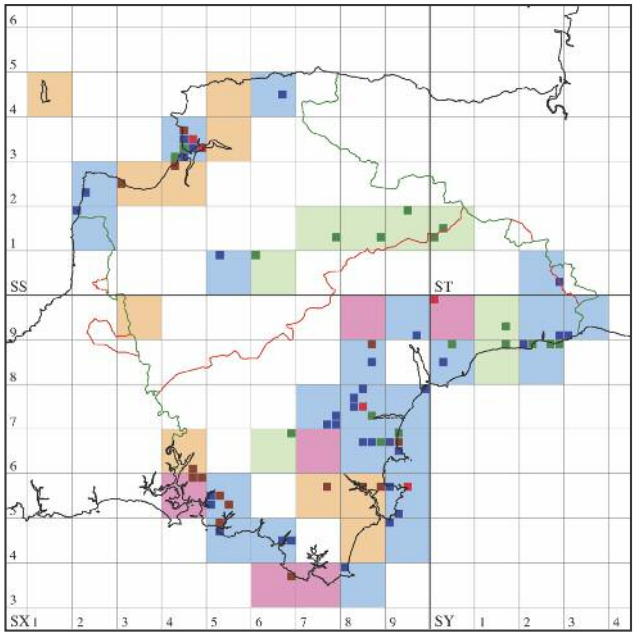
● ***Centaurium erythraea*** Rafn
Common Centaury – **Map 355**
Frequent. Native. Drier heaths and grassy places, especially where there is not too much competition, and often colonises bare areas. Var. *capitatum* (Willd. ex Cham.) Melderis has been found on the coast in both vice-counties and at Kingskerswell Common, 1938, T.Stephenson (**TOR**). There are no recent records but it may have been overlooked.
Flora as *Centaurium umbellatum* Gilib. p.456, Atlas p.130 (541), 1987 onwards (490).

● ***Centaurium pulchellum*** (Sw.) Druce
Lesser Centaury – **Map 356** (overleaf)
Occasional. Native. Short open grasslands around the coast and on heaths in the absence of competition. Often with *C. erythraea*.
Flora p.457, Atlas p.130 (23), 1987 onwards (41).

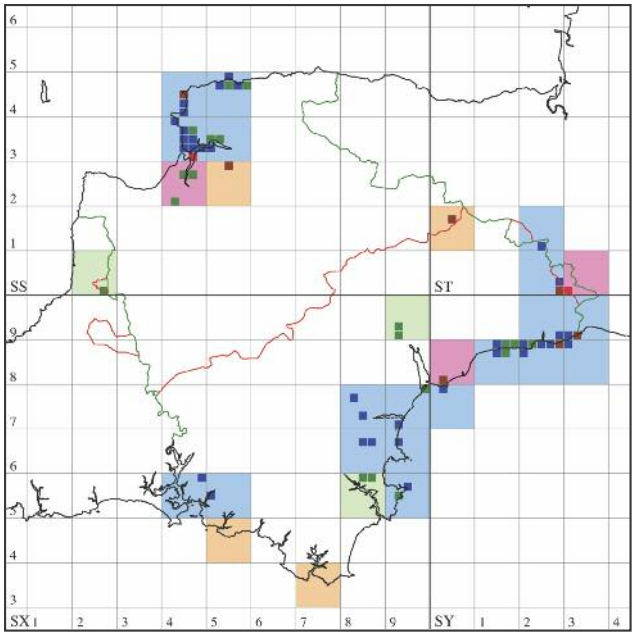
● ***Blackstonia perfoliata*** (L.) Huds.
Yellow-wort – **Map 357** (overleaf)
Occasional. Native. Usually confined to calcareous grasslands and sand dunes. In 1997 it appeared as a colonist in SX87, on the site of a back-filled clay quarry at

Yellow Centaury *Cicendia filiformis*

Map 356. ***Centaurium pulchellum*** **(Lesser Centaury)**



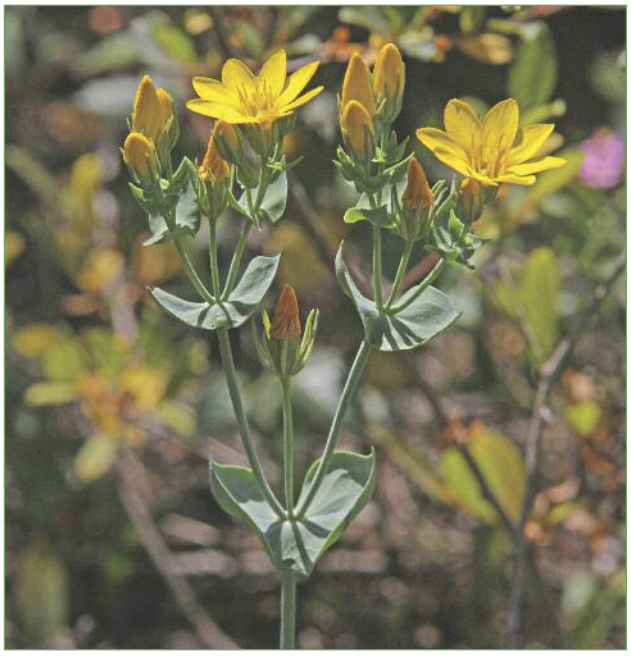
Map 357. ***Blackstonia perfoliata*** **(Yellow-wort)**



Bovey Heathfield and on disturbed ground on the edge of the nearby industrial estate where it was still present in 2014. It was found on a roadside near Highweek in 2004 and 2005, where it had probably arrived on the wheels of a clay lorry, but did not persist.
Flora p.455, Atlas p.130 (39), 1987 onwards (36).

● ***Gentianella campestris*** (L.) Börner – see panel opposite

● ***Gentianella amarella*** (L.) Börner
Autumn Gentian
Very rare. Native. Short dry calcareous pastures and sand dunes. Most of the populations are small. It was never common and it has not been seen at some of its old sites for many years. It has always been most frequent at Goat Island on the Axmouth-Lyme Regis Undercliffs in East Devon and at Braunton Burrows in North Devon.
Flora as *Gentiana amarella* L. p.459, Atlas p.130 (14), 1987 onwards (7).



Yellow-wort ***Blackstonia perfoliata*****, p.445**

VC3
SX86 Dainton Hill, 1943, *F.M.Day* (DA 1944).
SX87 West Hill, East Ogwell, SX833708, 1961, *M.C.Hockaday* (BSBI Atlas).
SX95 Berry Head, SX9556, 1915, *Miss Lightfoot* (Flora); 1929, *G.H.Douglas* (Flora, **TOR**); 1959, *F.Rose*; 1975, *E.Cowling* (Atlas); south fort, SX941561, 2007, *A.J.Byfield & R.E.N.Smith*.
SX96 Babbacombe, before 1861, *A.Griffiths* (Flora, **TOR**); 1935, *G.T.Fraser*; SX9264, 1983, *W.H.Tucker* (Atlas).
SY18 Salcombe Regis, *W.H.Cullen* (Cullen 1849).
SY28 Beer, *W.K.Martin* (Flora); tetrad SY2088, 1981, *K.Jefferies* (Atlas); 12 plants near Beer Quarry, SX2189, 1986, *L.J.Margetts* (DA 1987). Tetrad SY2288, 1968, *D.J.Allen* (Atlas); 1983, *RSPB* (Atlas). Goat Island, SY2789, 1966, *D.J.Allen* (Atlas); 1969, *T.J.Wallace* (Atlas); abundant, 35,000 to 50,000 plants, 1994, 1998 and 2000, *D.J.Allen & D.Campbell*. Rousdon (Flora). Culverhole Point, SY274893, 1959, *D.J.Allen*. The Plateau, SY292897, 1997, *D.J.Allen*.
SY38 Humble Point, 1997, SY305899, *D.J.Allen*.
SY39 Tetrad SY3090, 1975, *T.J.Wallace* (Atlas).

VC4
SX39 Tetcott, *H.H.Harvey* (Flora).
SX59 Okehampton, *H.H.Harvey* (Flora).
SS43 Braunton Burrows, 1882, *W.M.Rogers* (Rogers 1882b); *F.R.Elliston Wright* (Flora); 1950, *M.C.A.Caddell*; 1955, *E.F.Warburg*; widespread in numerous dune slacks and grasslands, *D.T.Holyoak* (Holyoak 1999); tetrad SS4432, 1973, *M.Parkinson* (Atlas); tetrad SS4434, 1964, *D.J.Allen* (Atlas); 1974, *M.Jaques* (Atlas); *W.H.Tucker & M.Tulloh*; three plants in Pine Slack, SS450355, 2004, *R.M.H.Hodgson*; tetrad SS4436, 1972, *M.Jaques*

Autumn Gentian *Gentianella amarella*, p.446

● ***Gentianella campestris*** (L.) Börner
Field Gentian
Very rare. Vulnerable on the British Red List. Native. Short moist pastures on neutral to slightly acid soils. It was once widespread near the north coast, on the Devonian rocks of Exmoor and on the west and northwest slopes of Dartmoor. It has gone from nearly all the localities listed in the Flora reflecting a long-term decline in most of lowland England and Wales. It was last seen, at Roborough Common in South Devon, in 1996, and although it can be sporadic in appearance, has not been found during more recent searches. Plants formerly referred to *G. campestris* var. *baltica* are now regarded as annual forms of *G. campestris* which intergrade with normal biennial plants (T.C.G.Rich 2009, pers. comm.).
Flora as *Gentiana campestris* L. p.457, Atlas p.130 (1), 1987 onwards (1).

VC3

SX55 About six plants in peaty pasture at Hemerdon Ball, SX5788, and in profusion in other pastures at Hemerdon, 1870, *T.R.A.Briggs* (Briggs 1880). Heathy ground by Wheal Sydney, 1877, *T.R.A.Briggs* (Briggs 1880).

SX56 Roadside by Bickleigh Down, 1860 and 1868, *T.R.A.Briggs* (Briggs 1880). Roborough Down, 1829 (Flora). Often seen on the southern part of Roborough Down, *T.R.A.Briggs* (Briggs 1880); one plant, SX514686, 1994, *R.E.N.Smith & M.F.Spooner*; two small colonies, SX514685, 1996, *R.M.H.Hodgson* (DA 1997).

SX57 Princetown, 1931, *E.N.Masson Phillips* (Flora). Very sparingly at Plaster Down, 1877, *T.R.A.Briggs* (Briggs 1880). On peat near Vixen Tor, 1929, *G.T.Harris* (Flora).

SX58 High Down, Lydford, 1929, *G.T.Harris* (Flora).

SX65 In considerable quantity and in several spots in rough pasture on Hanger Down, Cornwood, *T.R.A.Briggs* (Briggs 1880).

[SX87 Babbacombe Down, 1843, *R.C.R.Jordan* (Jordan 1844, Keys 1866), probably *G. amarella*.]

SX96 Watcombe (Stewart 1860).

[SX97 Neighbourhood of Teignmouth, *R.C.R.Jordan* (Keys 1866). Perhaps confused with *G. amarella*.]

VC4

SX58 Bridestowe, *H.H.Harvey* (Flora). This may be from one of the neighbouring hectads.

SX59 In calcareous conditions on Meldon Down, 1929, *G.T.Harris* (Flora); 1936, *M.Carpenter* (Flora, **TOR**).

SS43 Braunton Burrows, 1929, *G.C.Druce*; *F.R.Elliston Wright* (Flora). Northam Burrows, Mortehoe, Georgeham, *W.P.Hiern* (Flora).

SS44 Woolacombe, 1891, *anon*. det. *N.M.Pritchard* (**K**).

SS53 Shirwell, *W.P.Hiern* (Flora). Old Park, Shirwell, 1916, *F.A.Brokenshire* (**K**).

SS54 Ilfracombe, West Down, *W.P.Hiern* (Flora).

SS64 Trentishoe, before 1861, *A.Griffiths* (Keys 1866, **TOR**). Woody Bay, *W.P.Hiern* (Flora).

SS74 Lynton, Countisbury, Brendon, *W.P.Hiern* (Flora).

Also recorded from **VC3**: SX47, SX67 and **VC4**: SX48 (BSBI Atlas).

(Atlas); tetrad SS4632, 1973, *M.Parkinson* (Atlas); tetrad SS4634, 1978, *M.Jaques* (Atlas); tetrad SS4636, 1972, *M.Jaques* (Atlas); Churchill Plain, SS4533, 2009, *M.Breeds*. Northam Burrows (Polwhele 1797); north end of inland sea, SS443316, 1972 to 1986, *W.H.Tucker*.

SS44 Woolacombe, before 1925, *W.P.Hiern* (Flora).

Also recorded from **VC3**: SX46, SY29, ST10 (BSBI Atlas).

● ***Gentianella* × *davidiana*** T.C.G.Rich
G. amarella × *G. anglica*

Very rare. Native. Originally described as *Gentianella anglica* (Pugsley) E.F.Warb. subsp. *cornubiensis* Pritchard. Known only from dune slacks at Braunton Burrows where it is found in mixed populations with both parents and where there are many intermediates between the parents. 1987 onwards (1).

VC4

SS43 Braunton Burrows, SS4533, 1987, *L.J.Margetts & W.H.Tucker*. Raven Slack and Old Met Slack, 1995, *T.C.G.Rich, P.A.Smith & J.Breeds* (Rich *et al.* 1997).

● [***Gentianella amarella* × *G. uliginosa***
This hybrid was reported at Braunton Burrows by Holyoak (1999) but recent morphological reanalysis of these and South Wales populations by T.C.G.Rich indicates that the two species do not hybridise or, if they do, only exceptionally rarely and there is no evidence of introgression (Rich 2012, pers. comm.).]

● ***Gentianella anglica*** (Pugsley) E.F.Warb.
Early Gentian
Very rare. Native. Old pastures and cliff-tops in South Devon and dune slacks and grassland at Braunton and Northam Burrows in North Devon.
Flora as *Gentiana anglica* Pugsl. p.458, Atlas p.130 (6), 1987 onwards (3).

VC3

SX55 Hemerdon Ball, 1870, *T.R.A.Briggs* (Briggs 1870), "flowering June 5th and May 17th 1870 were probably *G. anglica*" (Flora); 1955, *D.P.Wilson* (BSBI Atlas). Hemerdon Ball is a granite intrusion and an unlikely substrate for this species.

SX95 In three places on Berry Head, SX940560, SX941560 and SX940566, 1st May 1994, *N.Smallbones & P.J.Stevens* (DA 1995).

SY28 Twelve plants in flower on chalky mounds near Rousdon, 28th May 1936, *W.K.Martin*; Rousdon (landslip), *M.Abbot-Anderson* (Flora). Tetrad SY2688, 1969, *T.J.Wallace* (Atlas). Dowlands Cliffs, SY286896, 1946, *A.J.Wilmott* (BSBI Atlas); "fair amount on the cliff tops although ploughing an old pasture has reduced it somewhat", SY287897, 1955, *T.J.Wallace* (DA 1955). Fifteen plants at The Plateau, SY290896, 1987; present, 1994, *N.Barns* (DA 1995); recorded regularly between 1997 and 2006 when numbers of flowering plants have varied between one in 1999 and 57 in 2001, *D.J.Allen*.

Early Gentian *Gentianella anglica*

VC4

SS43 Braunton Burrows, 1921, *F.R.Elliston Wright*; 8th Sept. 1927, *I.A.Williams* conf. *T.C.G.Rich* (**BM**, Rich 1996); SS455342, May 1973, *J.G.Keylock* (DA 1974); 14th June 1991, SS457337, *W.H.Tucker*; in Raven Slack and Old Met Slack, 12th June 1995, *T.C.G.Rich, P.A.Smith & J.Breeds* (Rich *et al.* 1997).

● ***Gentianella uliginosa*** (Willd.) Börner
Dune Gentian
Very rare. Nationally Rare. Vulnerable on the British Red List. Native. Known only from one dune slack at Braunton Burrows where it grows with *G. amarella* and, historically, from Northam Burrows.
1987 onwards (1).

VC4

SX43 Braunton Burrows, before 1849, in herb. *E.Forster* det. *T.C.G.Rich* 1996 (**BM**); 1927, *I.A.Williams* det. *T.C.G.Rich*, 1996 (**BM**); more than 130 plants in an area of several square metres in Beach Head Slack, SS446358, 1998, *D.T.Holyoak* (Holyoak 1999, DA 2000); 2004, *T.C.G.Rich*. Northam Burrows, 1882, *A.Ley* det. *T.C.G.Rich* (**BIRM**); not re-found during three visits made by *T.C.G.Rich* between 2004 and 2007.

Apocynaceae

● ***Vinca minor*** L.
Lesser Periwinkle – **Map 358**
Frequent. Introduced, a neophyte; native in Europe. A garden escape generally distributed in hedgebanks, usually on roadsides close to habitation and occasionally in woodland and waste ground. It frequently forms extensive populations on the edge of villages, occasionally in the more open countryside, spreading out along hedgebanks and dominating the native flora.
Flora p.454, Atlas p.131 (475), 1987 onwards (410).

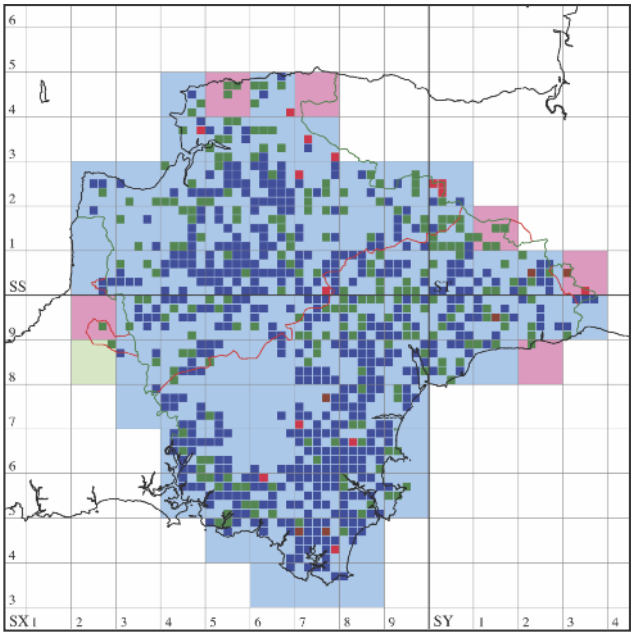
● ***Vinca major*** L.
Greater Periwinkle – **Map 359**
Frequent. Introduced, a neophyte; native in the Mediterranean. A garden escape generally distributed in similar situations to *V. minor*, though not quite as invasively. Var. *oxyloba* has been reported from South Devon.
Flora p.454, Atlas p.131 (286), 1987 onwards (328).

var. *oxyloba* Stearn

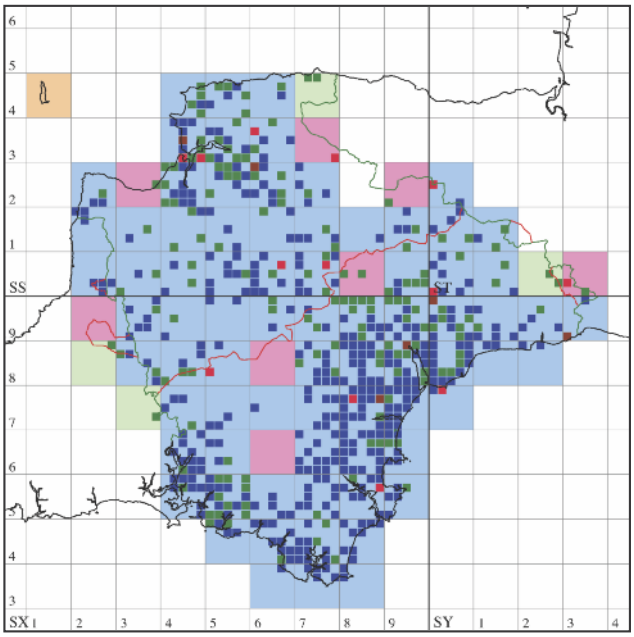
VC3

SX86 Orley Common, SX827665, 1993, *L.J.Margetts & W.H.Tucker* (DA 1994); 2005, *D.Fenwick*; 2014, *R.E.N.Smith & C.J.Smith*.

Map 358. ***Vinca minor*** **(Lesser Periwinkle)**



Map 359. ***Vinca major*** **(Greater Periwinkle)**



SY08 Lime Kiln Lane, Exmouth, SY0282, 1984, *J.A.Philpott* (DA 1995).
ST01 Sampford Peverell, ST027141, 1995, *L.J.Margetts*.

● ***Vinca difformis*** Pourr.
Intermediate Periwinkle
Very rare. Introduced, a neophyte; native in southwest Europe. A garden escape on roadside banks and occasionally in woodland. A recent colonist.
1987 onwards (8).

VC3
SX63 Inner Hope, SX6739, 2006, *R.E.N.Smith & C.J.Smith* (DA 2009).
SX64 Kingston, SX6347, 2008, *R.E.N.Smith & C.J.Smith*.
SX73 East Portlemouth, SX7438, 2008, *R.E.N.Smith & C.J.Smith*.
SX76 Near Hood Manor, SX7763, 2008, *R.E.N.Smith*.
Shinner's Bridge, SX787619, 2008, *P.D.Pullen*.
SX85 Goodrington, SX8959, 2004, *R.E.N.Smith* (DA 2009).
SX96 Lincombe Slopes, SX9363, 2007, *R.E.N.Smith*.

Boraginaceae

● ***Lithospermum purpureocaeruleum*** L. – see panel overleaf

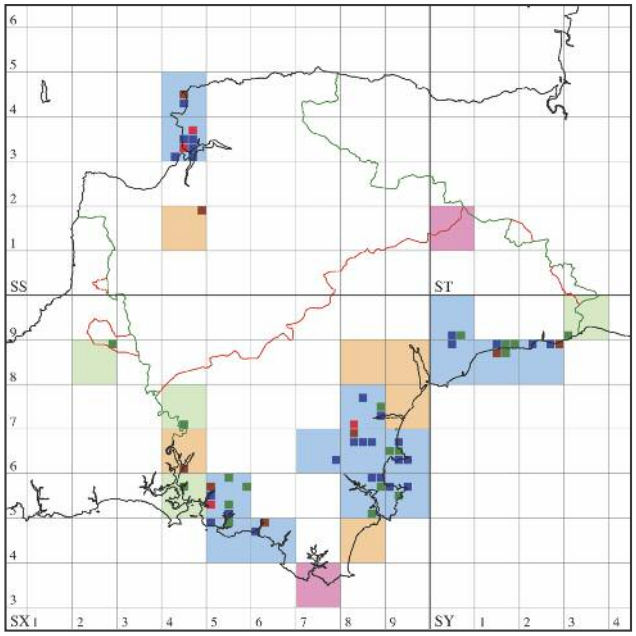
● ***Lithospermum officinale*** L.
Common Gromwell – **Map 360** (overleaf)
Occasional. Native. Local in bushy and grassy places on calcareous and base-rich soils.
Flora p.467, Atlas p.133 (40), 1987 onwards (33).

● ***Lithospermum arvense*** L.
Field Gromwell
Very rare. Endangered on the British Red List. Introduced, an archaeophyte. An arable weed favouring light, dry, calcareous soils. Once occasional to frequent in cereal and vetch crops, probably as a seed contaminant. By 1939 it had been found on only three occasions since the turn of the century. There is one recent record made in 1992. Records in VC3: SX75, SX95, SX97, SY09, SY28 and VC4: SS43, SS44, published in the Atlas, made during the 1970s are all thought to be suspect, perhaps errors of identification or transcription. The source of three records, dated 1900, published in the Atlas in VC3: SX45 and SX46 have not been found and these are also excluded.
Flora p.468, Atlas p.133 (10), 1987 onwards (1).

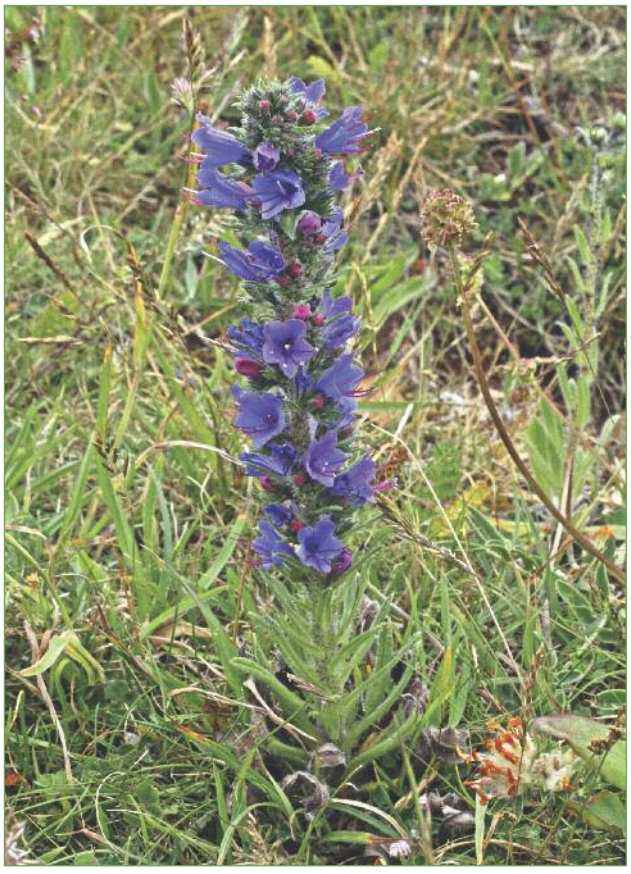
VC3
SX45 Seen once at Plymouth Hoe, 1845, *I.W.N.Keys* (Keys 1866). Shalaford, 1861 and plentiful with vetches, Eggbuckland, 1872, *T.R.A.Briggs* (Briggs 1880).
SX46 Tamerton Foliot, 1862, *T.R.A.Briggs* (Briggs 1880).

Vinca major* var. *oxyloba

Map 360. *Lithospermum officinale* (Common Gromwell)

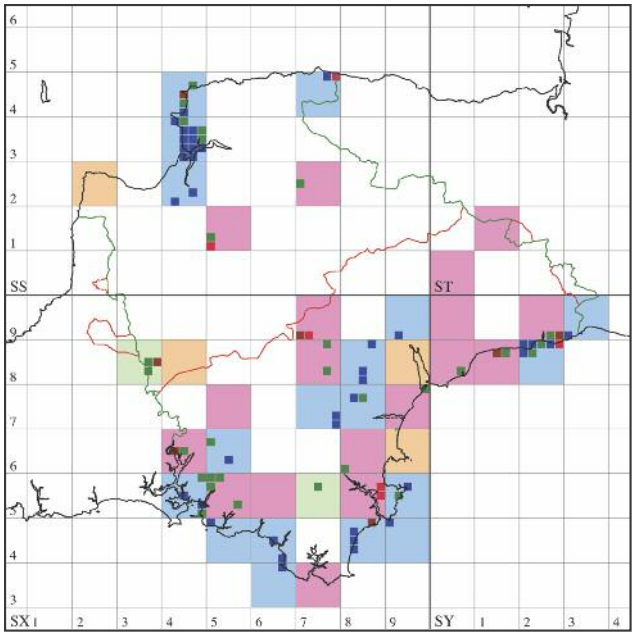


SX55 Plymstock, *T.R.A.Briggs* (Briggs 1880). One or two plants on a wall at Marshmill, 1879, *T.R.A.Briggs* (Briggs 1880).
SX56 Four plants with fodder plants at Shaugh, 1870, *T.R.A.Briggs* (Briggs 1880).
SX76 Cornfields, Staverton, *S.Hannaford* (Hannaford 1851).
SX77 Ilsington, *W.S.M.D'Urban* (Flora).
SX84 About 50 plants in an arable field near Redlap Cove, SX8748, 1992, *L.Lock* (DA 1993).



Viper's Bugloss *Echium vulgare*

Map 361. *Echium vulgare* (Viper's Bugloss)



SX87 Frequent about Chudleigh (Jones & Kingston 1829); Chudleigh, 1851, *C.E.Parker* (Flora, **TOR**). Kingsteignton, 1939, *G.T.Fraser* (Greig 1957).
SX88 Rather common in cultivated ground, Trusham and Ashton, *W.M.Rogers* (Rogers 1882a).
SX96 Barton (Stewart 1860). Torquay, before 1861, *A.E.Griffiths* (Flora, **TOR**).
SX97 Roadside between Dawlish and Teignmouth, *J.Jacob* (Jones & Kingston 1829). Teignmouth, *R.C.R.Jordan* (Keys 1866). Barton, Torquay (Stewart 1860, Larter 1900).
SX98 Exminster, *T.R.Ravenshaw* (Ravenshaw 1860).
SX99 Stoke Canon, *E.Parfitt* (Flora).
SY19 Cornfields, Sidbury, *W.H.Cullen* (Cullen 1849).

VC4

SS42 Fields about Northam, 1853, *G.Maw* (Maw 1853).
SS44 Woolacombe, *T.R.Ravenshaw* (Ravenshaw 1860); 1907, *C.E.Larter* (Greig 1957).
SS45 Braunton Burrows, 1862, *T.R.Ravenshaw* (Ravenshaw 1862).
SS53 Perhaps SS52, Bishop's Tawton, 1922, *R.Taylor* (DA 1922).
SS54 Near Silverdene, Combe Martin, 1920 to 1928, *J.Clennell* comm. *H.W.Pugsley* (DA 1946).
SS62 Castle Hill, Filleigh, *E.Fortescue* (Greig 1957).

● ***Echium vulgare*** L.
Viper's-bugloss – **Map 361**
Occasional. Native. Commonest near the sea in sand dunes and fixed shingle. Also found in disturbed grassland and wasteland. It has a preference for calcareous soils.
Flora p.468, Atlas p.133 (56), 1987 onwards (50).

● ***Echium plantagineum*** L.
Purple Viper's-bugloss
Very rare. Introduced, considered to be an archaeophyte nationally but casual in Devon. There is one recent record from Exminster in a cereal crop.
Flora p.468, Atlas p.133 (1), 1987 onwards (1).

● ***Lithospermum purpureocaeruleum*** L.
Purple Gromwell
Very rare. Nationally Rare. Native. On calcareous soils amongst scrub and in disturbed soils on sea cliffs in South Devon. It can be locally common on the cliffs of East Devon east of Sidmouth, between Salcombe Regis and Bindon Cliffs. It was first recorded on the cliffs near Petit Tor, Torquay, by Aron Neck (Jones & Kingston 1829) and has been recorded occasionally since that time south to Anstey's Cove. The records from SX46, accepted as native or casual by other authors (Wiggington 1999, Preston *et al.* 2002), SX76 (Atlas) and a recent record from SX95 are out of range and may refer to garden escapes.
Flora p.467, Atlas p.133 (7), 1987 onwards (10).

VC3
SX46 Warleigh, 1939, *E.N.Masson Phillips* (Greig 1957).
SX76 Tetrad SX7862, 1979, *M.F.Spooner* (Atlas).
SX96 Anstey's Cove, 1901, *H.H.Haines* (**ABS**). Walls Hill, SX935652, 1980, *M.A.Stile*; 1993, *N.Smallbones*. Petit Tor, 1829, *A.Neck*; Babbacombe, 1839, *W.S.Hore* (**PTH**); 1840, *N.Ward* (Ward 1841, **BON**); 1857, *J.S.Henslow* (**CGE**); Oddicombe, 1904, *D.D.Cunningham* (**TOR**); south of Petit Tor, SX9266, 1992, *L.Lock* (DA 1993); above Oddicombe Beach, SX925660, 2007, *R.E.N.Smith* (DA 2008).
SY18 Salcombe Regis, 1860, *M.G.Watkins*; Salcombe Mouth, 1876, *W.M.Rogers* (Lees 1877, **CGE**, **MANCH**); SY1487, 1969, *A.Hall & C.Baker* (Atlas). Dunscombe Cliff, SY1587, 1958, *D.J.Allen*; SY154879, 1992 and 2010, *R.E.N.Smith & C.J.Smith*. Lincombe, SY157880, 2014, *D.J.Allen*. Weston Mouth, SY163879 and SY163880, 1956, *A.E.Wade* then regularly by many observers to the present day. Tetrad SY1888, 1969, *G.S.Steele-Perkins*. Berry Camp, SY185880, 1980, *M.A.Stile*.
SY28 Beer Head, 1893, *anon.* (**BM**). Branscombe, 1938, *D.D.Cunningham* (**TOR**). Branscombe to Beer Head, SY210880, 1945, *E.Nimmo* (BSBI Atlas); SY211880, 2004, *R.M.Walls*; SY212881, 1989, *R.FitzGerald*; SY213880, 1993, *R.E.N.Smith*; SY218879, 1980, *M.A.Stile*; SY2187, 2003, *J.J.Ison*; SY2288, 1968, *D.J.Allen*; SY222880, 1989, *R.FitzGerald*. Bindon Cliffs, SY266896, 1994, *N.Barns*.

Also recorded from **VC3**: **SX95** (BSBI Atlas).

VC3
SX77 Ashburton, Bickington, 1925 and 1926, *M.G.Tucker* (Flora).
SX78 Lustleigh, *C.E.Larter* (Flora, **TOR**); 1926, *M.G.Tucker* (Flora).
SX85 Dartmouth, *R.M.Milne* (Flora).
SX87 On wool waste at Bradley Woollen Mill, SX853711, 1969, *M.C.Hockaday*.
SX98 Exminster, SX9486, 2014, *C.Jeffs & L.Lock* (DA 2015).
SY08 Exmouth (Flora).

● ***Echium pininana*** Webb & Berthel.
Giant Viper's-bugloss
Rare. Introduced, a neophyte; native in the Canary Islands. A garden escape confined to more or less frost free places. Plants are monocarpic and may take two to three years before flowering.
1987 onwards (16).

VC3
SX64 About 12 self-sown plants in lane at Ringmore, SX6545, 1997, *M.Catt*.
SX73 Salcombe, SX7338, 2007, *R.E.N.Smith*. Single plant in field above Maceley Cove, SX772357 and several plants on waste ground and in a nearby hedgebank at East Prawle, SX778360, 2008, *S.J.Leach & S.J.Parker*.
SX84 Naturalising at Beesands, SX8240, 2007, *I.Lakin*. Naturalising by Slapton Ley at Torcross, SX822420, 2005 and 2008, *R.E.N.Smith*. National Trust car park near Little Dartmouth, SX874491, 2005, *R.E.N.Smith*. Near Stoke Fleming, SX8648, 2005, *R.E.N.Smith*.
SX85 Dartmouth, SX8751, 2008, *R.E.N.Smith & C.J.Smith*. By coast path at Broad Sands, SX8957, 2008, *R.E.N.Smith*.
SX87 Persistent for several years in Water Lane, Highweek, SX847718, 1990, *R.E.N.Smith & C.J.Smith*.
SX95 Woodhuish car park, SX913531, 2005, *N.F.Stewart*.
SX96 A self-sown plant on cliff edge at Babbacombe, SX925655, 2012, *R.E.N.Smith & C.J.Smith*. Haccombe Cross, SX9068, 2008, *R.E.N.Smith*.
SX97 Seedling on quay, Teignmouth, SX9372, 2007, *R.E.N.Smith & C.J.Smith*.
SX98 Near River Exe at Topsham, SX966875, 1995, *C.G.Hanson* (BSBI Atlas). By railway line at Starcross, SX9780, 2007, *I.Lakin*; two plants, SX977812, 2009, *R.E.N.Smith & C.J.Smith*.

Also recorded from **VC4**: SS44 (BSBI Atlas).

● ***Echium arenarium*** Guss.
Extinct. Introduced, casual; native in the Mediterranean.
1987 onwards (0).

VC3
SX47 Tavistock, 1930, *Miss Boggis* det. *G.C.Druce* (Druce 1931a).

● ***Pulmonaria officinalis*** L.
Lungwort – **Map 362**
Occasional. Introduced, a neophyte; native in Europe. A garden escape found near habitation and elsewhere as a throw-out.
Flora p.464, Atlas p.133 (17), 1987 onwards (43).

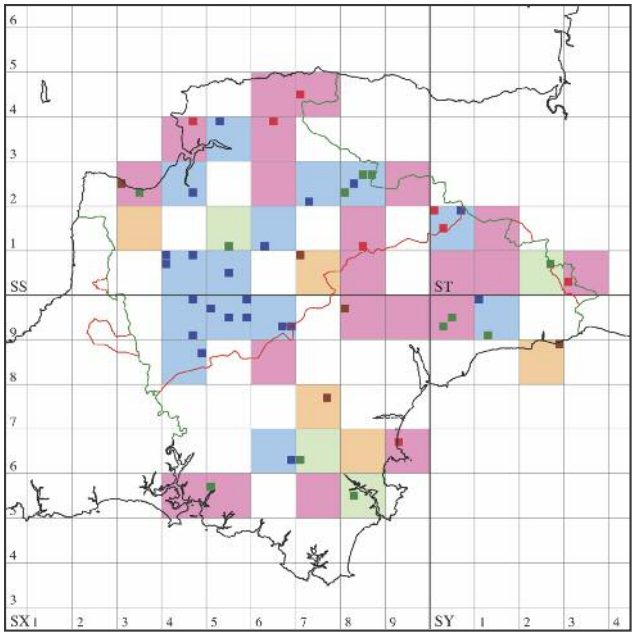
● ***Pulmonaria longifolia*** (Bastard) Boreau
Narrow-leaved Lungwort
Extinct. Native in southern England but introduced in Devon. A garden escape. Perhaps not identified correctly. The specimen listed from Torquay in **TOR** (Flora) has not been found.
Flora p.464, Atlas p.133 (1), 1987 onwards (0).

VC3
SX45 Manadon, Tamerton Foliot, 1860, *T.R.A.Briggs* (Briggs 1880).

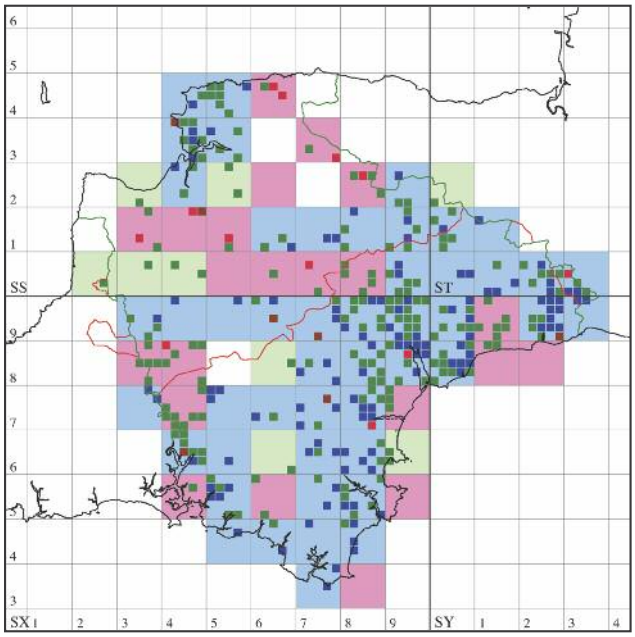
VC4
SS92 Tetrad SS9220, 1977, *P.Touch* (Atlas).

Russian Comfrey ***Symphytum* × *uplandicum***

Map 362. *Pulmonaria officinalis* (Lungwort)



Map 363. *Symphytum officinale* (Common Comfrey)

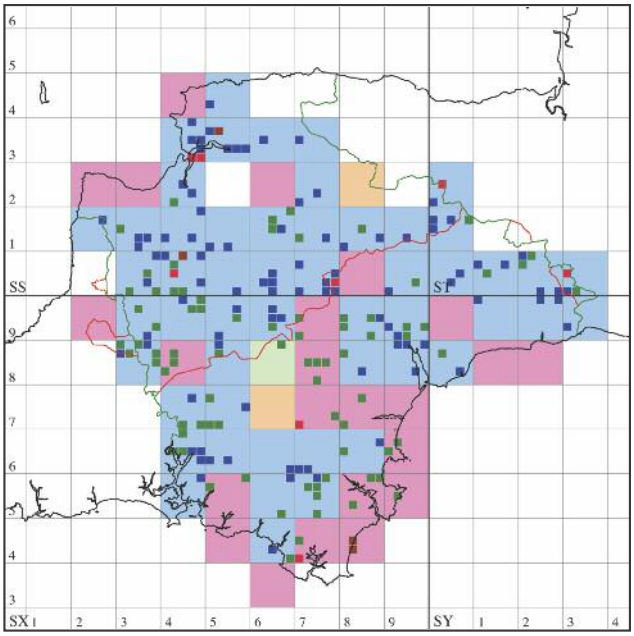


● ***Pulmonaria saccharata*** Mill.
subsp. *affinis* (Jord.) Nyman
Extinct. Introduced, a neophyte; native in Europe. Now a commonly grown garden plant.
Flora p.464 as *Pulmonaria affinis* Jord. 1987 onwards (0).

VC3
SX76 Dartington, 1919, *C.V.B.Marquand* det. *O.Stapf* (Flora).

● ***Symphytum officinale*** L.
Common Comfrey – **Map 363**
Frequent. Native. Damp road verges and meadows, and by ponds, ditches and streams. Generally distributed in the lowlands but commonest in southeastern parts of the county. Many of the records may refer to *S.* × *uplandicum*.
Flora p.461, Atlas p.134 (257), 1987 onwards (142).

Map 364. ***Symphytum* × *uplandicum* (Russian Comfrey)**



● ***Symphytum* × *uplandicum*** Nyman
S. asperum × *S. officinale*
Russian Comfrey – **Map 364**
Occasional. Introduced, a neophyte; native in the Caucasus. Roadsides and waste ground in drier situations than *S. officinale*. Under-recorded at the tetrad level and perhaps confused with *S. officinale*.
Flora as *S. peregrinum* Ledeb. p.462, Atlas p.134 (90), 1987 onwards (54).

● ***Symphytum* 'Hidcote Blue'**
Hidcote Comfrey
Very rare. Introduced, a neophyte. Raised at Hidcote a little before 1930. A garden throw-out naturalised on roadsides. 1987 onwards (10).

VC4
SS31 Roadside at Sutcombe, SS346116, 1999, *W.H.Tucker*.
SS42 Weare Giffard, SS466225, 1989, *W.H.Tucker*.
SS53 Roadside at Fremington Pill, SS522325, 1998, *W.H.Tucker*.
SS64 By lane to church, Kentisbury, SS620433, 1996, *W.H.Tucker*.
SS69 Taw Green, SX647962, 2011, *R.M.H.Hodgson*.
SS81 Mudford Gate, SS860128, 1998, *W.H.Tucker*.

Also recorded from **VC3**: **SX78**, **SX96**, **SY18** and **VC4**: **SS32** (BSBI Atlas).

● ***Symphytum asperum*** Lepech.
Rough Comfrey
Very rare. Introduced, a neophyte; native in southwest Asia. A garden throw-out recorded in the past from both vice-counties, but perhaps mistakenly. The older records are, perhaps, more likely to have been *S.* × *uplandicum*. There is one recent record.
Flora p.461, Atlas p.134 (4), 1987 onwards (1).

VC3
SX46 Pound Cross, SX485639, 2007, *D.Fenwick*.
SX64 Tetrad SX6642, 1956, *anon.* (Atlas).
SX99 Tetrad SX9290, 1974, *J.T.H.Knight* (Atlas).
SS90 Tetrad SS9800, 1973, *R.B.Ivimey-Cook* (Atlas).

VC4
SS42 Established on roadside near Tuckingmill, SS402224, 1960, *D.Hilton* (DA 1961).

● ***Symphytum tuberosum*** L.
Tuberous Comfrey
Rare. Native in northern England and Scotland but introduced in Devon. A garden escape found in several locations in North Devon and more rarely in South Devon.
Flora p.462, Atlas p.134 (4), 1987 onwards (7).

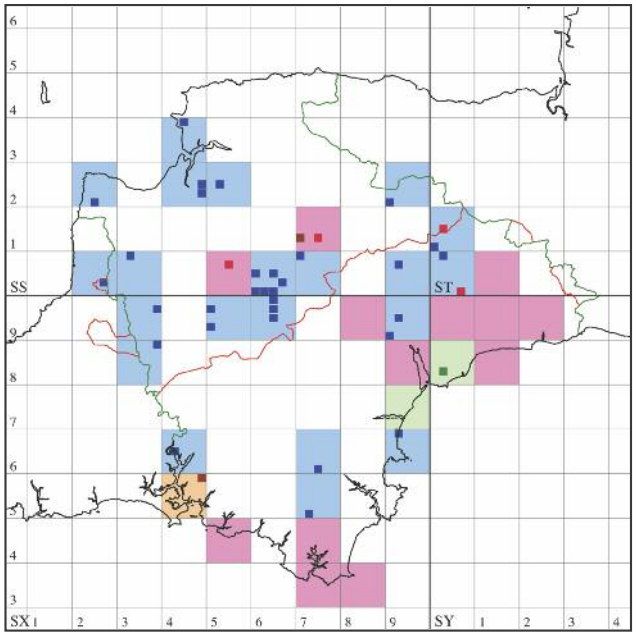
VC3
[SX45 Bere Ferrers, *G.T.Fraser* (Flora, **TOR**) redet. as *S. grandiflorum*, *L.J.Margetts*.]
SX86 Kingskerswell, 1936, *T.Stephenson* (**TOR**).
SY08 Lympstone Common, SY0284, 1988, *M.Bristow* (DA 1999).

VC4
SX39 Clawton, tetrad SX3498, 2006, *R.M.H.Hodgson*.
SS40 Near Shebbear, SS447093, 1978 to 1988, *W.H.Tucker*.
SS42 Tetrad SS4822 and tetrad SS4826, 1974, *M.Tulloh* (Atlas).
SS52 Locally common by the Torrington-Horwood road north of Webbery Cross, Alverdiscott, SS5125, 1958, *E.R.S.Winter* (DA 1959).
SS53 Middle Marwood, SS537382, 1994, *W.H.Tucker*; 2010, *R.M.H.Hodgson*.
SS61 Probably planted, King's Nympton, SS683196, 1995, *E.Stenger* conf. *W.H.Tucker*.
SS62 Swimbridge, SS623299, 1997, *E.Stenger*.
SS63 Charles Bottom, SS685312, 1999, *E.Stenger*.
SS71 Tetrad SS7012, 1975, *W.H.Tucker* (Atlas).

● ***Symphytum grandiflorum*** DC.
Creeping Comfrey – **Map 365** (overleaf)
Occasional. Introduced, a neophyte; native in the Caucasus. A garden escape.
1987 onwards (45).

Rough Comfrey *Symphytum asperum*

Map 365. *Symphytum grandiflorum* (Creeping Comfrey)



● ***Symphytum orientale*** L.
White Comfrey
Rare. Introduced, a neophyte; native in western Russia and Turkey. A garden escape, commonest in the northwest of VC4.
Flora p.462, Atlas 134 (10), 1987 onwards (13).

VC3
[SX86 Coffinswell, 1941, *T.Stephenson* (**TOR**) redet. as a garden cultivar, *L.J.Margetts*.]
SX98 Clyst St. George, SX972882, 1959, *J.Burrow* det. *Kew* (DA 1960).
SY08 Lower Coombe Farm, Lympstone, SY0084, 2008, *J.J.Ison*.
ST00 Near Plymtree, ST055030, 1996, *B.Benfield* det. *L.J.Margetts*.

VC4
SS39 Tetrad SX3896, 1976, *A.J.C.Beddow* (Atlas).
SS42 Bideford, 1905, *C.E.Larter* (**TOR**). Tetrad SS4226, 1973, *M.Tulloh* (Atlas). Tetrad SS4426, 1972, *M.Tulloh* (Atlas). Road verge at Westleigh, SS462280, 1963, *W.H.Tucker* (DA 1964). Tetrad SS4628, 1972, *M.Tulloh* (Atlas). Hectad record, post 1987 (BSBI Atlas).
SS43 Braunton Burrows, SS4533, 1999, *R.E.N.Smith*. Instow, SS474306, 1969 to 1987, *M.Tulloh* (Atlas). Tetrad SS4830, 1978, *M.Tulloh* (Atlas). Old ash beds, Yelland, SS484326, 1989, *W.H.Tucker*.
SS51 Tarka Trail, SS515105, 1998, *E.Stenger* det. *W.H.Tucker*.
SS53 Barnstaple, 1932, *F.A.Brokenshire* (Flora); 1936, *R.Taylor* (Flora, **TOR**). Fremington, 1882, *A.W.Trethewy* (Flora, **BM**). Fremington churchyard, SS513325, 1973 to 1994, *M.Tulloh* (Atlas); 1997, *W.H.Tucker*. Tetrad SS5230, 1973, *M.Tulloh* (Atlas). Tetrad SS5232, 1972, *M.Tulloh* (Atlas). Penhill Lane, SS523329, 1992, *W.H.Tucker*. Tetrad SS5432, 1974, *M.Tulloh* (Atlas). Roadside bank in village, Pilton, SS558343, 2008, *R.M.H.Hodgson*.
SS91 Park Hill, Tiverton, SS955132, 1998, *J.Southey*. Roadside near Petroc College, Tiverton, SS9513, 2002, *J.J.Ison*. Bolham Lane, Tiverton, SS954146, 2005, *J.J.Ison*. By the Grand Western Canal, SS964124, 2004, *J.J.Ison*.

Tuberous Comfrey *Symphytum tuberosum*

● ***Symphytum caucasicum*** M.Bieb.
Caucasian Comfrey
Extinct. Introduced, a neophyte; native in the Caucasus. A garden escape found once in North Devon.
1987 onwards (0).

VC4
SS53 Established for some years at Lake Village, SS5531, 1974, *W.H.Tucker* det. *D.McClintock* (DA 1975).

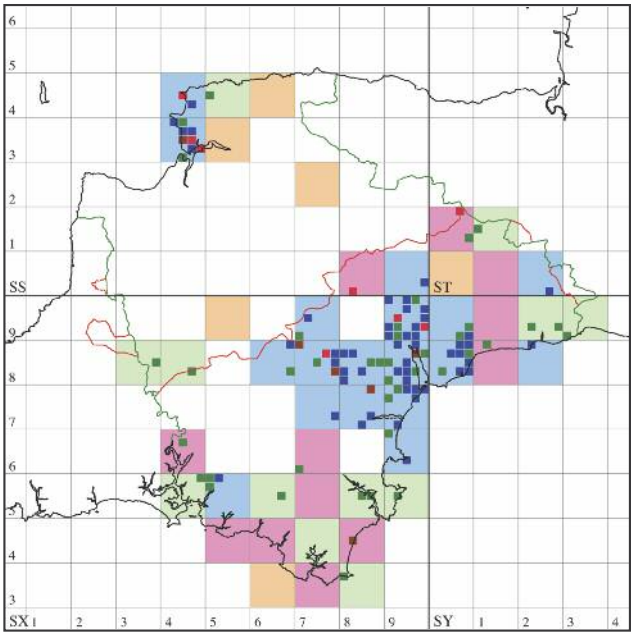
● ***Symphytum bulbosum*** K.F.Schimper
Bulbous Comfrey
Very rare. Introduced, a neophyte; native in southeast Europe. A garden escape known from a small area of North Devon.
1987 onwards (5).

VC4
SS41 Tetrad SS4818, Torrington Common, 2000, *W.H.Tucker*.
SS42 Road verge at Torrington, SS494201, 1989 and 2001, *W.H.Tucker* (DA 1990). Weare Giffard, SS475233, 1995, *W.H.Tucker & R.E.N.Smith*. Gammaton Moor, SS491242, 1984, *W.H.Tucker*. Webbery Cross, SS496260, 1982, *W.H.Tucker* det. *A.C.Leslie* (DA 1983).
SS53 On a shaded verge at Middle Marwood, SS537382, 1994, *W.H.Tucker* (DA 1995).

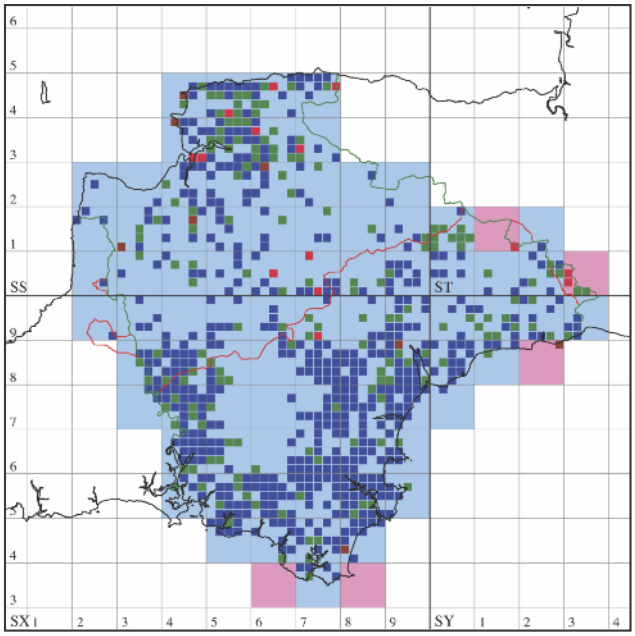
Also recorded from **VC4**: **SS52** (BSBI Atlas).

● ***Brunnera macrophylla*** (Adams) I.M.Johnst.
Great Forget-me-not
Very rare. Introduced, a neophyte; native in the Caucasus. A garden throw-out.
Flora as *Anchusa myosotidiflora* Lehm. p.463, Atlas as *A. myosotidiflora* Lehm. p.134, 1987 onwards (1).

Map 366. *Anchusa arvensis* (Bugloss)



Map 367. *Pentaglottis sempervirens* (Green Alkanet)



VC3
SX78 Moretonhampstead, 1926, *G.R.A.Watts* (Flora).

VC9
ST30 Coaxdon Quarry, ST310005, 1993, *L.J.Margetts & L.M.Spalton* (DA 1994).

● ***Anchusa officinalis*** (L.)
Alkanet
Extinct. Introduced, a neophyte; native in Europe. Casual in Devon and recorded in the past from a few sites in South Devon.
Flora p.463, Atlas p.134, 1987 onwards (0).

VC3
SX85 Dartmouth (Flora).
SX86 Shiphay, Torquay, *C.E.Larter* (DA 1941).
SX98 Starcross (Flora).
SY08 Budleigh Salterton (Flora).
SS90 Up Exe, 1954, *J.Benson* (DA 1955).

● ***Anchusa azurea*** Mill.
Garden Anchusa
Extinct. Introduced, a neophyte; native in southern Europe. A garden escape.
Flora p.463, Atlas p.134, 1987 onwards (0).

VC3
SX89 Crediton Hamlets, 1954, *O.Greig* (DA 1954).

VC4
SS53 Barnstaple (Flora).

● ***Anchusa arvensis*** (L.) M.Bieb.
Bugloss – **Map 366**
Occasional. Introduced, an archaeophyte. An annual weed of freely drained soils. Rather common in the Exeter area of VC3 and the Braunton area of VC4, but under-recorded at the tetrad level in other places.
Flora as *Lycopsis arvensis* L. p.463, Atlas p.134 (58), 1987 onwards (67).

● ***Cynoglottis barrelieri*** (All.) Vural. & Kit Tan
False Alkanet
Very rare. Introduced, a neophyte; native in southeast Europe. A garden throw-out.
1987 onwards (1).

VC4
SS44 Established amongst cliff scrub at Mortehoe, SS454446, 1995, *DAB* (DA 1996).

● ***Pentaglottis sempervirens*** (L.) Tausch ex L.H.Bailey
Green Alkanet – **Map 367**
Frequent. Introduced, a neophyte; native in southeast Europe. Locally common in lowland areas, especially in

Great Forget-me-not *Brunnera macrophylla*

South Devon, on verges, in hedges, scrub and open woodland.
Flora as *Anchusa sempervirens* L. p.463, Atlas p.135 (460), 1987 onwards (401).

● ***Borago officinalis*** L.
Borage – **Map 368**
Occasional. Introduced, a neophyte; native in southern Europe. Formerly grown as a nectar source for bees it was widespread in 1939 (Flora). The map, which shows post Flora records, suggests a contraction of range since that time.
Flora p.462, Atlas p.135 (19), 1987 onwards (32).

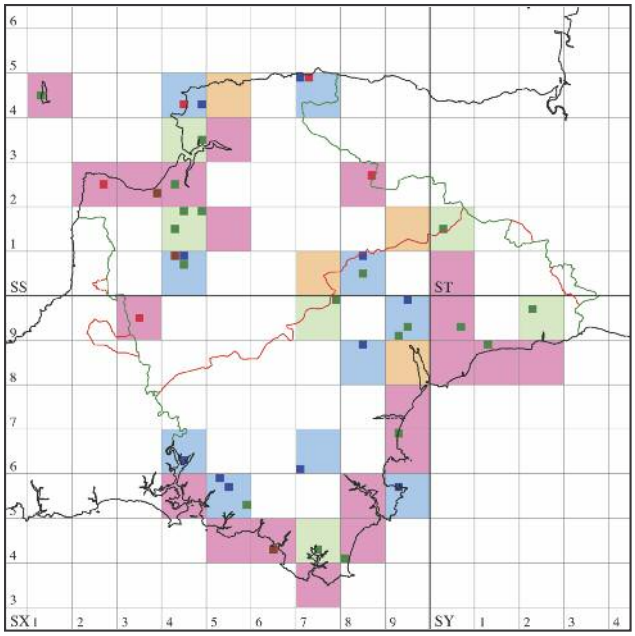
● ***Trachystemon orientalis*** (L.) G.Don
Abraham-Isaac-Jacob
Very rare. Introduced, a neophyte; native in the Caucasus and Turkey. A garden escape, naturalised in a few places near habitation.
Flora p.462, Atlas p.135, 1987 onwards (8).

VC3
SX45 Edge of Ham Woods, SX462576, 2007, *P.D.Pullen*.
SX46 Well established by footpath on south side of Tamerton Creek, SX465608, 2007, *P.D.Pullen*; 2013, *R.M.H.Hodgson*.
SX76 Barracks Hill, Totnes, SX797608, 1974, *E.N.Masson Phillips* (DA 1975).
SX96 Watcombe Beach, 1928, *G.C.Druce*. Ilsham Valley, 1945, *T.Stephenson* (**TOR**). Oddicombe, 1938, *W.F.Stanbury* (Flora, **TOR**). Ilsham Marine Drive, SX9463, 2005, *R.E.N.Smith*. Known for many years in wood by car park at Anstey's Cove, SX9364, 1995, *M.Pool* (DA 1996). Roadside above Oddicombe Beach, SX925657, 2014, *R.E.N.Smith & C.J.Smith*.

VC4
SS92 Established outside garden by footpath at Holmingham Wood, Stuckeridge, SS953204, 2003, *J.J.Ison*.

Borage *Borago officinalis*

Map 368. *Borago officinalis* (Borage)

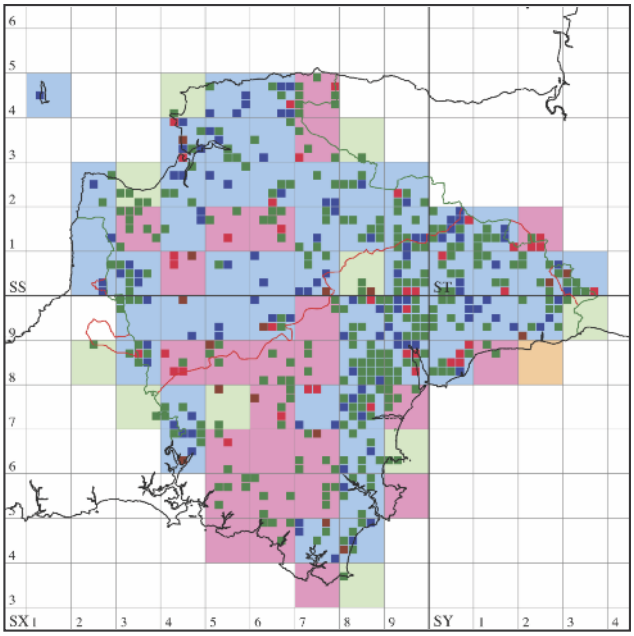


● ***Amsinckia micrantha*** Suksd.
Common Fiddleneck
Very rare. Introduced, a neophyte; native in western North America. Casual in VC3 with only two recent records. Previously much misidentified as other species which might have occurred or which might be synonymous (Stace 2003).
Flora as *Amsinkia hispida* (Ruiz & Pavon) I.M.Schurt, *A. intermedia* Fisch. & Meyer and *A. menziesii* (Lemh.) Nels. & Macbr. p.461, and Atlas as *A. hispida*, *A. intermedia* and *A. menziesii* p.135, 1987 onwards (2).

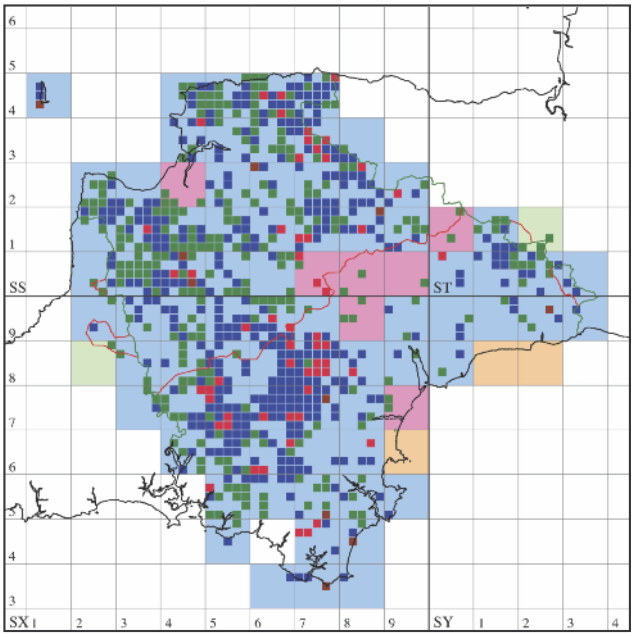
VC3
SX47 On the banks of the Tiddy Brook at Whitchurch, SX481730, 2010, *R.Hutchins* det. *R.E.N.Smith* (DA 2010).
SX86 As *A. intermedia*, *A.Crawshaw* (Flora).
SX87 As *A. intermedia*, waste ground by river at Newton Abbot, *G.T.Fraser* det. *Kew* (Flora).
SX96 As *A. menziesii*, Torquay, 1922, *C.F.Vincent* (Flora, **TOR**).
SX97 As *Amsinckia* sp., Dawlish Warren, *S.C.Patterson* det. *Kew* (**TOR**). Dawlish Warren golf course, SX9679, 1958, *A.Angus* det. *B.L.Burtt* (DA 1959, **LIV**).
SX98 As *A. hispida*, Exmouth Docks, 1919, *M.Cobbe* (Flora).
SX99 As *A. menziesii*, Countess Wear, 1921, *W.S.M.D'Urban* (Druce 1922). Field entrance in Sowton Lane, 25 plants, SX973929, 2007, *J.J.Ison* (DA 2008).
SY08 In disused chicken run at Exmouth, SY0080, 1958, *V.M.Wilkinson* det. *Kew* (Atlas).

● ***Myosotis scorpioides*** L.
Water Forget-me-not – **Map 369**
Frequent. Native. Damp and wet habitats, usually in fertile, calcareous to mildly acidic soils.
Flora as *Myosotis palustris* Hill. p.465, Atlas p.137 (369), 1987 onwards (165).

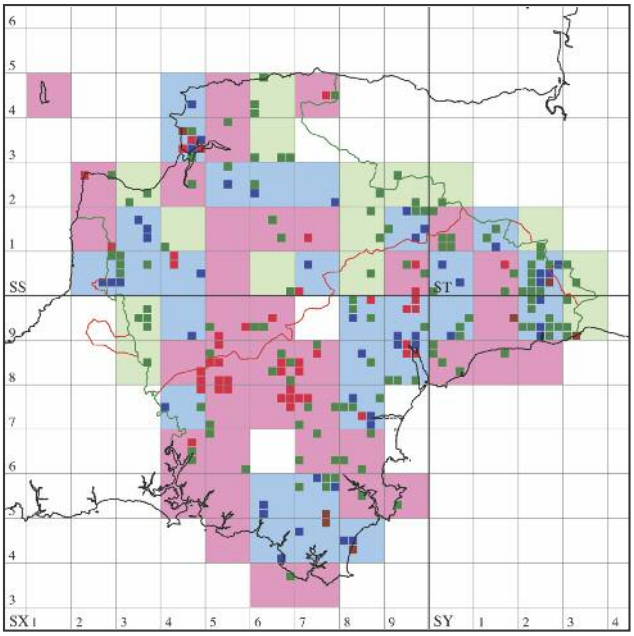
Map 369. ***Myosotis scorpioides*** **(Water Forget-me-not)**



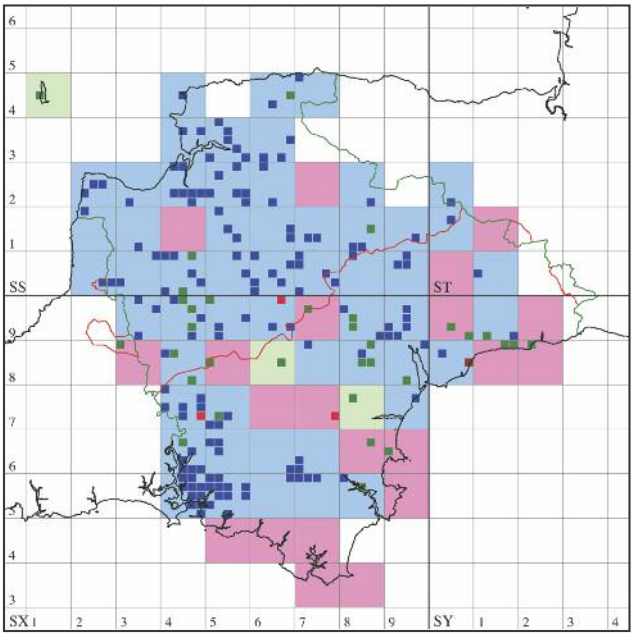
Map 370. ***Myosotis secunda*** **(Creeping Forget-me-not)**



Map 371. ***Myosotis laxa*** **(Tufted Forget-me-not)**



Map 372. ***Myosotis sylvatica*** **(Wood Forget-me-not)**



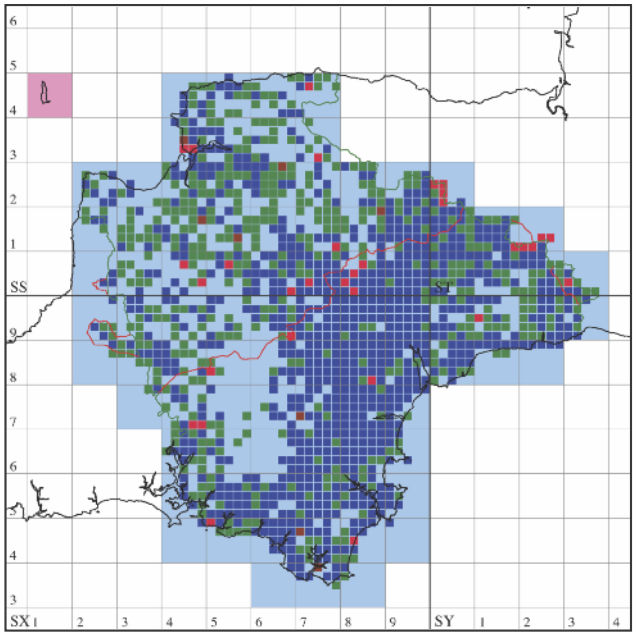
● ***Myosotis secunda*** Al.Murray
Creeping Forget-me-not – **Map 370**
Frequent. Native. By streams and pools in marshy pastures, moorland flushes and springs. It prefers acid peaty soils and avoids calcareous sites.
Flora as *Myosotis repens* Don ex Reichb. p.465, Atlas p.136 (492), 1987 onwards (295).

● ***Myosotis laxa*** Lehm.
Tufted Forget-me-not – **Map 371**
Frequent. Native. Ditches, damp meadows often where there has been soil disturbance, and on the margins of ponds and streams. Our plant is subsp. *caespitosa* (Schultz) Hyl. ex Nordh.
Flora as *Myosotis caespitosa* Schultz p.464, Atlas p.136 (146), 1987 onwards (113).

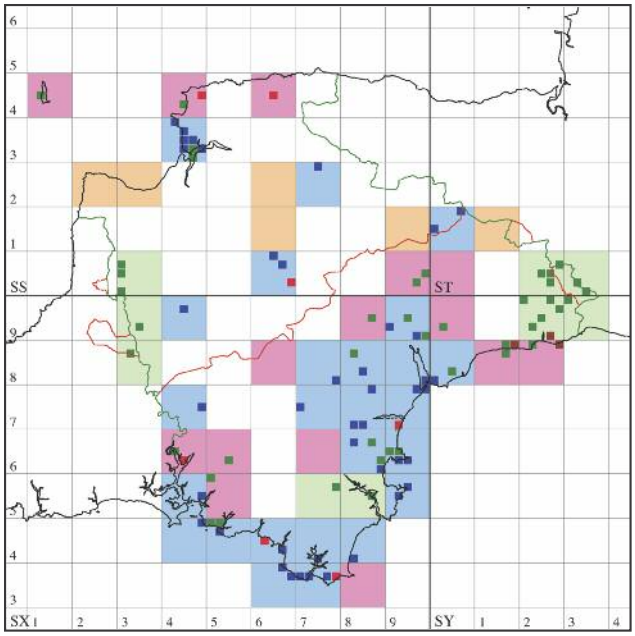
● ***Myosotis sylvatica*** Ehrh. ex Hoffm.
Wood Forget-me-not – **Map 372**
Frequent. Native in Britain but probably introduced in Devon. Regarded as a garden escape in the Flora where only three records are listed. By 1984, when the Atlas was published, it was recorded in 35 tetrads within 22 hectads. It has now been recorded in most hectads. It is widespread in the Plymouth area and relatively frequent in VC4. Perhaps under-recorded elsewhere. Most are likely to be garden forms.
Flora p.466, Atlas p.136 (35), 1987 onwards (161).

● ***Myosotis arvensis*** (L.) Hill
Field Forget-me-not – **Map 373** (overleaf)
Common. Introduced, an archaeophyte. Generally distributed except on the high ground. It is found as a weed in arable fields but is also common in other

Map 373. *Myosotis arvensis* (Field Forget-me-not)



Map 374. *Myosotis ramosissima* (Early Forget-me-not)



disturbed places, hedgerows, woodland fringes and roadsides.
Flora p.466, Atlas p.135 (1035), 1987 onwards (754).

● ***Myosotis ramosissima*** Rochel
Early Forget-me-not – **Map 374**
Occasional. Native. Locally frequent on dry freely draining sandy soils in sand dunes and other coastal localities. Rare inland where, in the absence of short grassland, in can sometimes be found on ant-hills where these survive agricultural practices. The authors of the Flora regarded it as very common and generally distributed. This was certainly not the case by 1984 and it is now relatively uncommon.
Flora as *Myosotis collina* Hoffm. p.466, Atlas p.135 (53), 1987 onwards (58).

Water Forget-me-not *Myosotis scorpioides*, p.456

● ***Myosotis discolor*** Pers.
Changing Forget-me-not – **Map 375**
Frequent. Native. Moist Culm Measures grasslands, dry open grasslands and other disturbed places. It is generally distributed but absent from the high moorland areas.
Flora as *Myosotis lutea* (Cav.) Pers. p.467, Atlas p.136 (354), 1987 onwards (282).

● ***Lappula squarrosa*** (Retz) Dumort.
Bur Forget-me-not
Extinct. Introduced, casual; native in Europe. Casual from wool waste, grain, or bird-seed.
Flora as *Lappula echinata* Gilib. p.460, Atlas p.135, 1987 onwards (0).

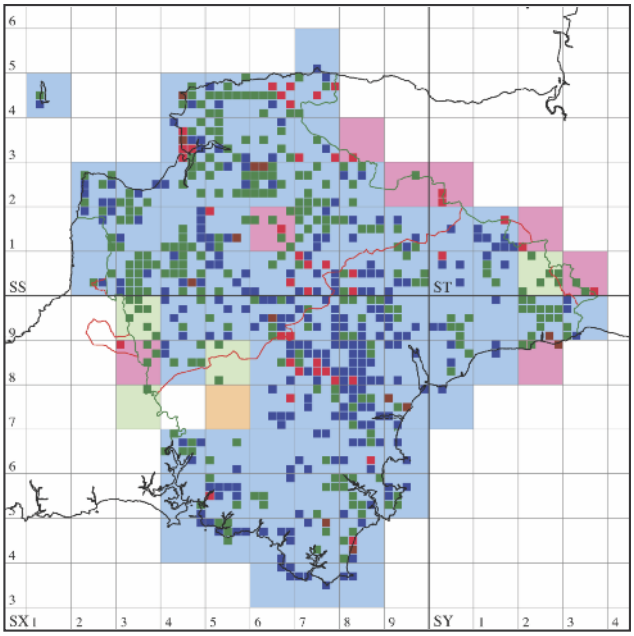
VC3
SX98 Countess Wear, *W.S.M.D'Urban*, 1920 (Druce 1921).

VC4
SS72 By railway, South Molton, 1929, *G.C.Druce* (Druce 1930b).

● ***Omphalodes verna*** Moench
Blue-eyed-Mary
Very rare. Introduced, a neophyte; native in southeast Europe. A garden escape naturalising in woodland and other shaded places.
Flora p.460, Atlas p.135, 1987 onwards (5).

VC3
SX46 Well established by footpath on south side of Tamerton Creek, SX465608, 2002, *P.D.Pullen* (DA 2003).
SX64 Battisborough, SX6047, 1988, *D.M.Oxtoby* (DA 1990).
SX78 Church Lane, Manaton, SX752818, 1998, *G.L.Morgan* (DA 1999).
SX85 Naturalised in woodland, Dartmouth, *R.M.Milne* (DA 1910).

Map 375. *Myosotis discolor* (Changing Forget-me-not)



SX86 Spreading from a garden to the river bank, Littlehempston, *W.E.Fielden*; wall top, 1936, *G.T.Fraser* (Flora, **TOR**). Crab's Park, Paignton, *F.M.Day* (Flora).
SX97 On a roadside at Stokeinteignhead, *J.C.Drake* (Flora). Among rocks at Teignmouth, *Mrs. Taylor* (Polwhele 1797).
SX98 Exe estuary Reserve, SX9787, *anon*, 1980.
ST01 Halberton, *G.R.A.Watts* (DA 1928).

VC4
SS32 Naturalised in a wood at Clovelly, SS3124, 1959, *D.Hilton* (DA 1960).
SS51 Dolton, *R.Y.Holmes* (DA 1935).

● ***Cynoglossum officinale*** L.
Hound's-tongue
Rare. Near Threatened on the British Red List. Native. Coastal shingle, dunes and calcareous grassland usually near the sea. It is commonest on the chalk in the Beer area and in dune systems at Dawlish Warren and at Braunton. Although it appears to have gone from many of its old South Devon stations it can still be seen on Kerswell Down, and it re-appeared at Berry Head in 2008 after a long period of absence.
Flora p.460, Atlas p.137 (18), 1987 onwards (17).

VC3
SX54 Wembury, 1851, *I.W.N.Keys* (Keys 1866); gone by 1880, *T.R.A.Briggs* (Briggs 1880).
SX73 Chivelstone (Flora). East Portlemouth, 1858, *I.W.N.Keys* (Keys 1866).
SX74 Chillington, SX793425 and Kernborough, SX7941, 1973, *D.A.Curry* (BSBI Atlas).
SX84 Plentiful on beach, Slapton and Stokenham (Flora); Slapton, 1927, *G.H.Douglas* (**TOR**); tetrads SX8242 and SX8244 (Brookes & Burns 1969).
SX85 Paignton, *S.Hannaford* (Hannaford 1851). Goodrington, *H.Trimen* (Keys 1866). On the River Dart near Galmpton, 1858, *I.W.N.Keys* (Keys 1866). Beside high road, Stoke Gabriel, *I.W.N.Keys* (Keys 1866). Blackawton (Flora).
SX86 Kingskerswell, *T.R.A.Briggs* (Flora); Kerswell Down, "in great abundance", *R.Stewart* (Stewart 1860); 1937 (Flora); SX872676, 1992 and 2013, *R.E.N.Smith & C.J.Smith*. SX8568, 1979, *M.A.Turner* (Atlas).
SX87 Chudleigh (Jones & Kingston 1829). Highweek (Flora).
SX95 Churston Ferrers (Flora). Mudstone Bay, 1858, *I.W.N.Keys* (Keys 1866). Berry Head, *H.Trimen* (Keys 1866); 1955, *R.A.Boniface* (**NMW**); SX938563, 2008, *J.Lusher*; 2013, *D.C.Wood & M.Woods*.
SX96 Torquay, *A.E.Griffiths* (Flora, **TOR**).
SX97 Teignmouth, *R.C.R.Jordan* (Keys 1866). Dawlish Warren (Ravenshaw 1860); SX9879, 1980, *N.M.Wace* BSBI Atlas); 1990, *R.E.N.Smith & C.J.Smith*; 2002, *N.F.Stewart*; 2010, *J.J.Ison*.
SX98 Dawlish Warren, SX9980, 1985, *J.A.Philpott* (DA 1986); 2009, *K.Rylands & I.Lakin*; 2011, *J.J.Ison*.
SY08 Exmouth, *E.Parfitt* (Keys 1866).
SY09 Tetrad SY0292, 1973, *G.H.Gush* (Atlas).
SY18 Salcombe Regis (Flora). Branscombe (Flora).
SY28 On chalk at Axmouth (Flora). West of Beer Head, tetrad SY2086, 2004, *R.M.Walls*. Tetrad SY2088, 1981, *K.Jefferies* (Atlas); Gay's Farm, SY2089, 2006, *R.E.N.Smith*. Tetrad SY2288, 1973, *M.Parkinson* (Atlas); Beer fields, SY231899, 2005, *D.J.Allen*. Rousdon (Flora).
SY39 Ware Cliffs, Uplyme (Pugsley 1911).
ST10 Tetrad ST1802, 1977, *J.G.Keylock* (Atlas).

VC4
SS14 Lundy (Flora).

Changing Forget-me-not *Myosotis discolor*

SS43 Croyde Bay, SS4339, 1955, *E.F.Warburg* (BSBI Atlas) and regularly since. About Bideford (Pike 1755); Northam (Flora); Northam Burrows, SS4431, 1987, *W.H.Tucker*; 2009, *NDBG*. Instow (Flora); SS4731, 1987, *M.Tulloh*; 2008, *DAB*. Braunton, *G.Maw* (Maw 1853); Saunton (Tugwell 1857); widespread on Braunton Burrows and Saunton Sands, SS4434, SS4436, SS4533, SS4632 and SS4635, and recorded by many observers from 1955 to the present day.
SS44 Woolacombe (Tugwell 1857); SS4542, 1972, *J.Davie* (Atlas). Potter's Hill, Woolacombe, SS4543, 2010, *NDBG*. Tetrad SS4444, 1969, *J.P.Widgery* (Atlas); 1981, *R.B.Ivimey-Cook* (Atlas).
ST02 Tetrad ST0020, 1975, *G.Franklin* (Atlas).

Also recorded from **VC3**: **SX99**, **SY29** (BSBI Atlas).

● ***Phacelia tanacetifolia*** Benth.
Phacelia
Very rare. Introduced, a neophyte; native in California. Found as garden escape and as a component of seed mixes. 1987 onwards (17).

VC3
SX45 Derelict building site, Plymouth, 1985, *G.T.Boalch* det. *J.M.Mullin* (DA 1986, **BM**).
SX55 Sown with wild flowers at Staddiscombe, SX5151, 2009, *P.D.Pullen*. Sown with wild flowers at Brixton, SX564526, 2014, *P.D.Pullen*.
SX76 On track near Dartington Hall, SX7762, 1997, *N.Cozens* (DA 1999).
SX99 From a wild flower seed mix at Cricklepit Mill, Exeter, SX919921, 2008, *J.J.Ison*.

Hound's-tongue *Cynoglossum officinale*

SY08 Allotments, Exmouth, SY0181, 1997, *S.Leach* (DA 1999).
SY09 On river gravel in River Otter near Ottery St. Mary, SY0993, 2003, *D.J.Allen*.
ST00 Farm between Dulford and Kentisbeare, ST0606, 1997, *B.Benfield* (DA 1999).

VC4
SS43 Saunton, SS460373, 2005, *M.Breeds*.
SS44 Sown with other seeds near Mortehoe Station, SS484438, 2011, *M.Putnam & A.Holwill*.
SS51 South Harepath, SS552138, 2005, *E.Townsend*.
SS63 In a maize field near Stoke Rivers, SS639352, 2010, *N.F.Stewart*.
SS70 Amongst *Trifolium hybridum* near Broadnymett, SS701006, 2003, *N.F.Stewart*.

Also recorded from **VC3**: **SX64**, **SX73** (BSBI Atlas).

Convolvulaceae

● ***Convolvulus arvensis*** L.
Field Bindweed
Frequent. Native. Grassy and waste places and as an arable weed. It is widely distributed, but absent from moorland areas and scarce on the wetter soils of North Devon. Flora p.469, Atlas p.132 (801), 1987 onwards (426).

● ***Calystegia soldanella*** (L.) R.Br.
Sea Bindweed
Rare. Native. Sandy seashores. Inland Atlas records must have been transcription errors and have been deleted. The Plymouth record (Flora), near Plymouth in Jones & Kingston (1829), may refer to Wembury though Briggs (1880) did not record it west of the River Erme in Devon. Flora p.469, Atlas p.132 (10), 1987 onwards (21).

VC3
SX54 Wembury Point, SX5048, 2005, *P.D.Pullen*; 2009, *P.D.Pullen & R.E.N.Smith*.
SX64 Mothecombe, SX610473, 2007, *A.J.Byfield*; 2010, *R.E.N.Smith & R.M.H.Hodgson*. Sandbank by River Erme near Pamflete, *T.R.A.Briggs* (Briggs 1880); east bank of River Erme, SX6248, 2009, *R.E.N.Smith*. Cove below Kingston village, *T.R.A.Briggs* (Briggs 1880). Thurlestone and Bigbury (Flora). Tetrad SX6444, 1974, *M.F.Spooner* (Atlas). South Milton Ley, SX6741, 1974, *G.Waterhouse*; 2006, *R.E.N.Smith*. Tetrad SX6642, 1956, *anon*. (Atlas); Thurlestone, SX6642, 1995 and 2008, *R.E.N.Smith*. Tetrad SX6644, 1973, *M.F.Spooner* (Atlas); Cockleridge Ham, 2008, *R.E.N.Smith*.
SX73 Mill Bay, East Portlemouth, SX741381, 2007 and 2010, *R.E.N.Smith*.
SX84 Slapton and Stokenham, 1859, *I.W.N.Keys* (Keys 1866); Slapton Line, tetrad SX8242 (Brookes & Burns 1969); SX8243, 2004, *T.Purches*; 2013, *R.E.N.Smith*. Slapton Line, tetrad SX8244 (Brookes & Burns 1969); SX8345, 2005, *T.Purches*; 2013, *R.E.N.Smith*. Blackawton (Flora); Strete Gate, SX8345, 2013, *R.E.N.Smith*.

SX85 Paignton, 1848, *C.E.Parker* (Flora, **TOR**); *R.Hannaford* (Hannaford 1851); Goodrington, *R.Stewart* (Stewart 1860).
SX95 Tetrad SX9254, 1972, *M.Parkinson* (Atlas).
SX96 Torquay (Flora).
SX97 Tetrads SX9472 and SX9674, 1979, *M.A.Stile* (Atlas). Teignmouth, *I.W.N.Keys* (Keys 1866). Dawlish Warren (Jones & Kingston 1829); 1844, *R.C.R.Jordan* (Jordan 1844); 1926, *G.H.Douglas* (**TOR**); tetrad SX9878, 1970, *M.Parkinson* (Atlas); subsequently by many observers in SX9878 and SX9879.
SX98 Dawlish Warren, SX9980, 2009, *K.Rylands & I.Lakin*; 2011, *J.J.Ison*.
SY08 Tetrad SY0080, 1969, *R.B.Ivimey-Cook*; The Maer, Exmouth, SY0080, 1994, *R.E.N.Smith*; 2008, *J.J.Ison*.

VC4
SS43 Northam (Flora); Northam Burrows, SS4230, SS4330 and SS4430, 1987, *W.H.Tucker*. Instow (Flora); SS4731, 1969, *M.Tulloh*; 2008, *DAB*. Saunton, *T.F.Ravenshaw* (Ravenshaw 1860); Braunton Burrows, 1853, *G.Maw* (Maw 1853) and regularly throughout the dunes since then in tetrads SS4432, SS4632, SS4434, SS4634, SS4436. Croyde Bay, SS4339, 1955, *E.F.Warburg*, 1987, *W.H.Tucker*; 2011, *M.Putnam & A.Holwill*.
SS44 Mortehoe, *Dr. Wavell* (Jones & Kingston 1829); Woolacombe, tetrad SS4542, 1969, *J.P.Widgery* (Atlas), SX4542 and SX4543, 2008, *N.F.Stewart*. Tetrad SS4444, 1969, *J.P.Widgery* (Atlas); 1981, *R.B.Ivimey-Cook* (Atlas).

Also recorded from **VC3**: SX74, SY18, SY28 (BSBI Atlas).

● ***Calystegia sepium*** (L.) R.Br.
Hedge Bindweed – **Map 376** (overleaf)
subsp. *sepium*
Common. Native. Hedges, woodland fringes, waste ground and edges of wetlands. Widespread but absent from upland areas of Dartmoor and Exmoor.
Flora p.468, Atlas p.132 (1072), 1987 onwards (769).

forma *schizoflora* (Druce) Stace

VC3
SX74 Near East Allington, SX7649, 1957, *anon.* (BSBI Atlas, **CGE**).
SX77 Ashburton, *G.C.Druce* (Flora).

forma *colorata* (Lange) Dörfle

VC3
SX75 Woodford near Blackawton, SX7950, 2003, *J.F.D.Scott* (DA 2004).

VC4
SS22 Elmscott, SS226213, 1995, *W.H.Tucker*. Speke's Mill Mouth, SS228231, 1996, *W.H.Tucker* (DA 1997).

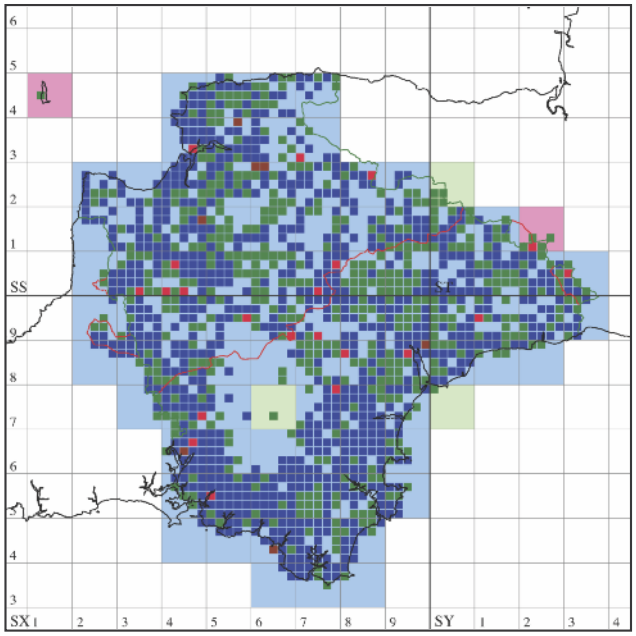
subsp. *roseata* Brummitt

VC3
SX64 On shingle at Cockleridge, SX6644, 1998, *M.Besselt & A.Besselt* det. *R.K.Brummitt* (DA 1999, **K**).

VC4
SS43 In a hedge at Downend, Croyde, SS433385, 1987, *W.H.Tucker* (DA 1988).

Sea Bindweed *Calystegia soldanella*

Map 376. *Calystegia sepium* (Hedge Bindweed)



● ***Calystegia* × *lucana*** (Ten.) G.Don.
C. sepium × *C. silvatica*
Very rare. Native.

VC3
SX44 Mount Wise, Plymouth, SX456411, 2014, *P.D.Pullen* det *R.E.N.Smith & M.Wilcox* (DA 2015).
ST10 Northcote Lane, Honiton, ST158009, 2004, *L.J.Margetts* det. *R.K.Brummitt* (**K**, **RENS**).

● ***Calystegia pulchra*** Brummitt & Heywood
Hairy Bindweed
Rare. Origin uncertain. Usually sterile, possibly derived from hybrids between *C. silvatica* and *C. pellita* (Ledeb.) G.Don from Asia (Stace 2010). Occasional in hedges. Not described as a distinct species until 1960.

Large Bindweed *Calystegia silvatica* subsp. *disjuncta*

Atlas as *C. sepium* subsp. *pulchra* (Brummitt & Heywood) Tutin p.132 (4), 1987 onwards (27).

VC3
SX45 Tetrad SX4654, 1974, *J.S.Rees* (Atlas); in hedgerows at Derriford and Glenholt, Plymouth, SX4754, 1975, *A.Wilson* (DA 1976). Ford Park Cemetery, Plymouth, SX477561, 2006 and 2014, *P.D.Pullen*. Weed in Swarthmore Garden, Mutley, SX483559, 2005, *D.Fenwick*.
SX46 Tetrad SX4064, 1975, *J.S.Rees* (Atlas). Tetrad SX4960, 1999, *L.J.Margetts & L.M.Spalton*.
SX56 Roadside hedge at Meavy, SX542671, 2012, *P.D.Pullen*.
SX64 Roadside hedge at Thurlestone, SX673427, 2009, *R.E.N.Smith*.
SX65 Roadside hedges near Cornwood, SX613589 and SX609587, 2008, *P.D.Pullen*.
SX75 In a hedge, Postford Lane, South Brent, SX7059, 1998, *L.M.Spalton* (DA 1999). Roadside hedge at Washbourne, SX798548, 1996, *R.E.N.Smith & C.J.Smith* (DA 1997, **RENS**).
SX78 Roadside hedge at Moretonhampstead , SX7285, 1986, *B.P.Thurlow* (DA 1987). Roadside hedge at Thorn Cross, SX728852, 2002 and 2004, *R.E.N.Smith*. Roadside hedge north of Lustleigh, SX777835, 1994, *R.E.N.Smith & C.J.Smith* (DA 1995).
SX79 In disused quarry at Drewsteignton, SX7390, 1968, *R.J.Skerrett* (DA 1969).
SX87 Chudleigh Knighton Heath, SX8377, 1990, *W.H.Tucker* (DA 1991).
SX89 Roadside hedge near Ide, SX8990, 2009, *R.E.N.Smith & C.J.Smith*.
SY08 Field boundary at Budleigh Salterton, SY060817, 2007, *A.Newton*.
SS80 Sandford, SS8202, 1996, *L.J.Margetts & L.M.Spalton* (DA 1997).
SS90 Tetrad SS9602, 1996, *J.T.H.Knight* (Atlas).

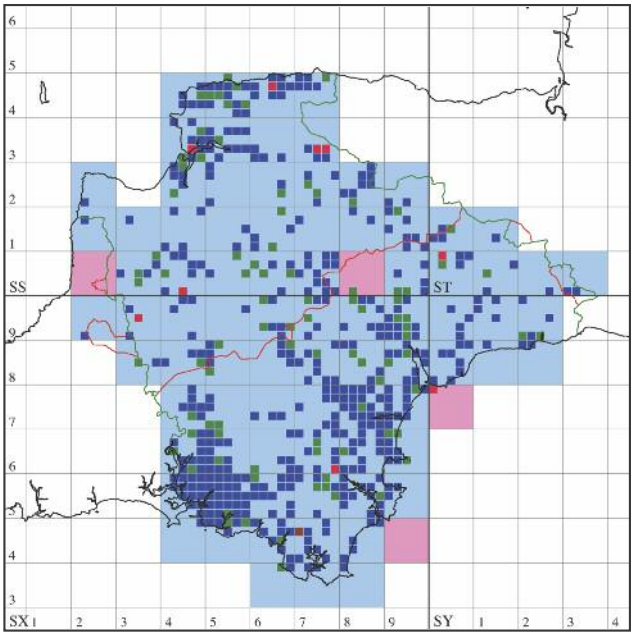
VC4
SX39 Luffincott, SX355940, 2007, *R.M.H.Hodgson*.
SX69 Sticklepath, SX641940, 2002, *R.E.N.Smith*.
SS22 Common in the valley at Speke's Mill Mouth, SS2223, 2009, *NDBG*.
SS64 Tetrad SS6044, 1977, *J.S.Rees* (Atlas).
SS74 Barbrook, SS7147, 1994, *W.H.Tucker* (DA 1995). Tetrad SS7648, 1982, *Exmoor Natural History Society*.
SS82 By the old school house at West Anstey, SS843266, 1995, *L.J.Margetts & L.M.Spalton* (DA 1996).

Also recorded from **VC3**: **ST21** and **VC4**: **SX48**, **SX85**, **SS61** (BSBI Atlas).

● ***Calystegia* × *howittiorum*** Brummitt
C. pulchra × *C. silvatica*
Very rare. Native. Plants originally determined from photographs as *C.* × *scanica* (*C. pulchra* × *C. sepium*) are now thought to be this hybrid. Expert determination is desirable but unavailable following the recent death of R.K.Brummitt. The plant has not been relocated.

VC3
SX44 Mount Wise, Plymouth, SX455541, 2005, *D.Fenwick*.

Map 377. *Calystegia silvatica* (Large Bindweed)



● ***Calystegia silvatica*** (Kit.) Griseb
Large Bindweed – **Map 377**
Frequent. Introduced, a neophyte; native in southern Europe. Not recognised as distinct from *C. sepium* until 1948. Hedges and waste ground usually close to habitation. Subsp. *disjuncta* Brummitt seems to be the common subspecies (L.J.Margetts, DA 2001) and more recent observation bears this out. Subsp. *silvatica* which may be commoner in western Britain (Preston *et al.* 2002) has been found three times and the records are listed below.
Atlas as *C. sepium* subsp. *silvatica* (Kit.) Maire p.132 (196), 1987 onwards (395).

subsp. *silvatica*

VC3
SX45 Ford Park Cemetery, Plymouth, SX478559, 2014, *P.D.Pullen* det. *M.Wilcox* (DA 2015, RENS).
SX78 Roadside by Kelly Mine, SX794817, 2014 *R.E.N.Smith* (DA 2015, **RENS**).
SX95 Berry Head, SX937567, 2014, *M.Wilcox* (DA 2015).

● ***Ipomoea lacunosa*** L.
White Morning-glory
Very rare. Introduced, casual; native in southeastern North America.
1987 onwards (1).

VC4
SS51 Growing in masonry outside grain mill at Torrington, SS508197, 1995, *W.H.Tucker* (DA 1996).

● ***Ipomoea batatas*** (L.) Lam.
Sweet-potato
Very rare. Introduced, casual; native in tropical America.
1987 onwards (1).

VC3
SY08 On waste ground at The Maer, Exmouth, SY005800, 1992, *R.Takagi-Arigho* (DA 1993).

Cuscutaceae

● ***Cuscuta campestris*** Yunck.
Yellow Dodder
Very rare. Introduced, a neophyte; native in North America.
1987 onwards (1).

VC4
SS43 On carrots in a garden at Braunton, SS4936, 2012, *P.Madgett* conf. *R.M.H.Hodgson* (DA 2013).

● [***Cuscuta europaea*** L.
Greater Dodder
The flora lists this species from two sites in each vice-county. A specimen collected in 1925 by E.D.Morgan near Fingle Bridge at **TOR** has been re-determined as *Cuscuta epithimum* by L.J.Margetts. The specimens in **RAMM** are all parasitic on *Trifolium* species, an unlikely host for *C. europaea*.]

● ***Cuscuta epithymum*** (L.) L. – see panel overleaf

● ***Cuscuta epilinum*** Weihe
Flax Dodder
Extinct. Introduced, casual; native in Europe.
Flora p.470, Atlas p.132.

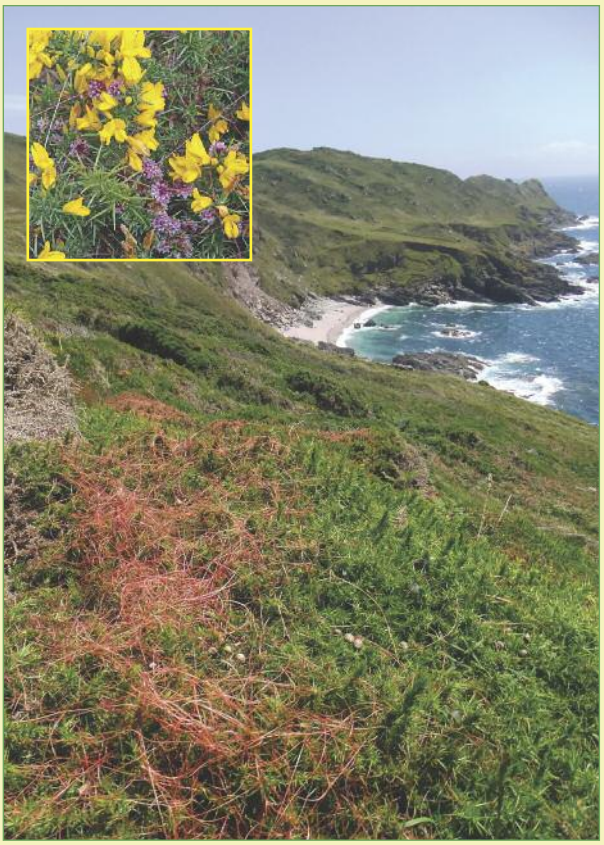
VC3
SX45 St. Budeaux, *H.J.German* (Flora).

● ***Cuscuta suaveolens*** Ser.
Fringed Dodder
Extinct. Introduced, casual; native in Chile. Parasitic on Lucerne (*Medicago sativa*).
Flora p.470.

VC3
SX96 Maidencombe, 1912, *Mrs. Warry* (Flora, **RAMM**).

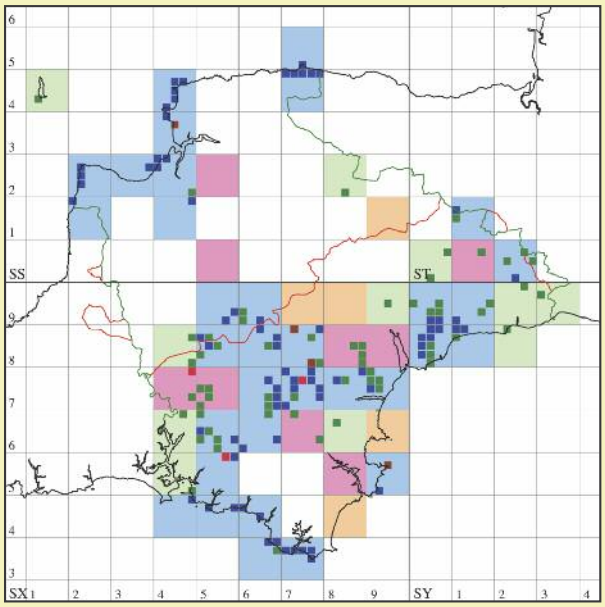
Solanaceae

● ***Lycium barbarum*** agg.
Duke of Argyll's Teaplant – **Map 379**
Rare. Introduced, a neophyte; native in China. Waste places and hedgerows usually near the sea. Records include both *L. barbarum* L. and *L. chinense* Mill. The two species have not been distinguished well enough to treat them separately. Most modern records are from near the Exe estuary in VC3 and the Braunton and Woolacombe area of VC4.
Flora p.472, Atlas p.147 (26), 1987 onwards (20).



● ***Cuscuta epithymum*** (L.) L.
Dodder – **Map 378**
Frequent. Vulnerable on the British Red List. Native. Parasitic on a range of dwarf shrubs, especially *Ulex gallii*, *U. europaea*, *Calluna vulgaris* and *Erica cinerea*. It is most frequent on the fringes of Dartmoor, the East Devon Commons and both coasts. Plants parasitic on clovers, especially on *Trifolium pratense* and *T. hybridum*, were recorded as *Cuscuta trifolii* Bab. in the Flora. It was found once in VC4, at Braunton, and from several parishes in VC3. There are no recent records.
Flora p.470, Atlas p.131 inc. *C. trifolii* Bab. (117), 1987 onwards (83).

Map 378. *Cuscuta epithymum* (Dodder)



● ***Atropa belladonna*** L.
Deadly Nightshade
Very rare. Probably native on chalk and limestone. Disturbed ground in gardens, churchyards and open woodland. It was extinct in the Plymouth and Combe Martin areas long before the Flora was published in 1939 and has only persisted in the area north of Torquay.
Flora p.472, Atlas p.147 (1), 1987 onwards (2).

VC3

SX54 Devil's Point, 1837, *Hunt, Jacob & Bree* but never seen by *T.R.A.Briggs* (Briggs 1880).
[SX55 The record listed for Bovisand Bay (Flora) appears to rely on Ravenshaw (1860) who in turn quotes Jones & Kingston (1829) who do not list it for Devon.]
SX74 Loddiswell, *J.Fairweather* (Fairweather 1913).
SX75 Tetrad SX7851, 1972, *M.Scott* (Atlas).
SX78 One plant in Lustleigh Churchyard, SX7881, 1997, *L.J.Margetts & L.M.Spalton* (DA 1998).
SX87 Naturalising on waste ground at Teignmouth, *ca.* 1846, *R.C.R.Jordan* (**BIRM**).
SX96 Babbacombe, 1931, *G.H.Douglas* (**TOR**); 1932, *E.D.Morgan* (Flora). In garden at Stokeinteignhead, 1936, *C.L.Peck* (Flora, **TOR**). Watcombe Woods, SX915676, 1997 and 2002, *R.E.N.Smith & C.J.Smith* (DA 1998).
SY18 Tetrad SY1286, 1976, *G.H.Gush* (Atlas).

VC4

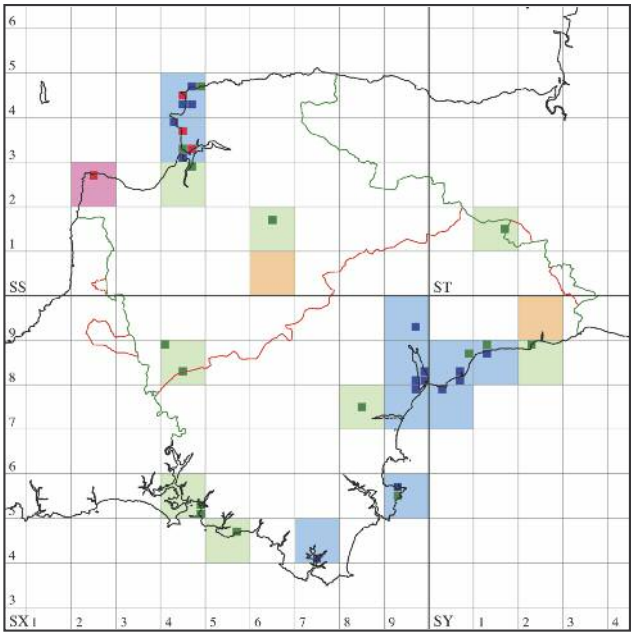
[SS43 Braunton Burrows, *W.S.Hore* (Flora). Hore's record is for Combe Martin.]
SS54 In hedges at Combe Martin, perhaps a garden escape, 1841, *W.S.Hore* (Hore 1842); before 1861, *A.E.Griffiths* (Flora, **TOR**).

● ***Hyoscyamus niger*** L.
Henbane – **Map 380**
Rare. Vulnerable on the British Red List. Introduced, an archaeophyte. Most records are from coastal areas but it has been seen recently on a gravel bed in the River Teign (SX87). It has persisted at Beesands (SX84) since it was first reported there in 1913 (Fairweather 1913) but is now most frequently recorded on Lundy and in the Braunton area in North Devon. Recent localised records are listed.
Flora p.472, Atlas p.147 (14), 1987 onwards (15).

VC3

SX55 Plymouth, SX5155, 1987, *R.A.Stevens et al.* (Stevens 1990).
SX64 Many plants on waste ground, Bigbury, SX6545, 1998, *M.Bennett* conf. *L.M.Spalton* (DA 1999).
SX84 Beesands, SX821410, 2001, *R.E.N.Smith*.
SX87 Gravel bank in River Teign, near Chudleigh, SX850773, 2006, *R.E.N.Smith & C.J.Smith*.
SX95 Churston Cove, SX917571, 1991, *L.Lock*.
SY28 Haven Cliff, Axmouth, SY260896, 1997, *D.J.Allen*.

Map 379. ***Lycium barbarum*** **agg. (Duke of Argyll's Teaplant)**



VC4

SS14 On rubble near church, Lundy, SS1343, 1988, *T.J.Dingle* (DA 1989). Castle Keep, Lundy, SS142438, 2003, *E.Burniston*. 200 plants between Castle Hill and Benjamin's Chair, Lundy, 2008, *LFS*.

SS43 Northam Burrows, SS445318, 1991, *W.H.Tucker*; 2004, *NDBG*. Instow, SS475316, 1987 and 1992, *M.Tulloh*. Saunton cliffs, SS444377, 2004, *A.Holwill*. Saunton Sands overflow car park, SS4437, 2007, *K.Rylands & I. Lakin*. Old power station site at Yelland, SS484327, 2005, *J.Tokeley*. Bank of River Caen, SS482345, 2008, *M.Breeds*.

● ***Nicandra physalodes*** (L.) Gaertn.
Apple-of-Peru
Very rare. Introduced, a neophyte; native in Peru. Usually on waste ground or on roadsides, occasionally amongst crops.
Flora p.471, Atlas p.147 (1), 1987 onwards (10).

VC3

SX55 On disturbed ground at Boringdon Park, SX530580, 2007, *D.Fenwick & P.D.Pullen*.

SX64 On field boundary south of Modbury, SX6549, 2006, *P.D.Pullen*.

SX65 One plant on tip at Goutsford, SX6351, 1996, *L.J.Margetts & L.M.Spalton* (DA 1997).

SX83 Several plants among swedes at Middlecombe, SX815398, 2009, *L.R.Austin & P.J.Reay*.

SX88 On compost pile at Poolmill Cross, 2005, SX807820, *N.F.Stewart*.

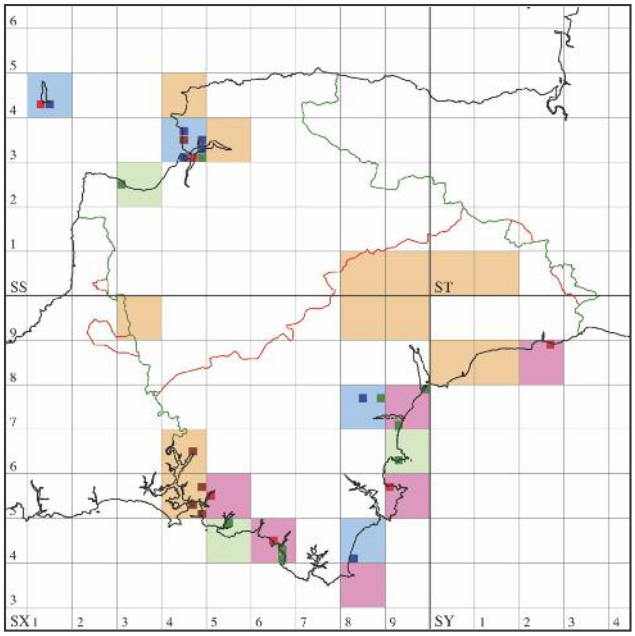
SX96 Two plants in arable at Higher Rocombe, SX9168, 1997, *L.J.Margetts & L.M.Spalton* (DA 1998).

SX98 Topsham, *W.S.M.D'Urban* (Flora). Exmouth Docks, 1917, *A.B.Cobbe* (Druce 1918b).

SY08 On rubbish tip at Bicton College, SY0786, 2005, *D.J.Allen*.

ST10 Waste ground around new car park, Honiton, ST1600, 1987, *L.J.Margetts* (DA 1998).

Map 380. ***Hyoscyamus niger*** **(Henbane)**



VC4

SX48 Tetrad SX4686, 1977, *M.F.Spooner* (Atlas).

SS41 Mill Lane, Torrington, SS4818, 2010, *R.M.H.Hodgson* (DA 2011).

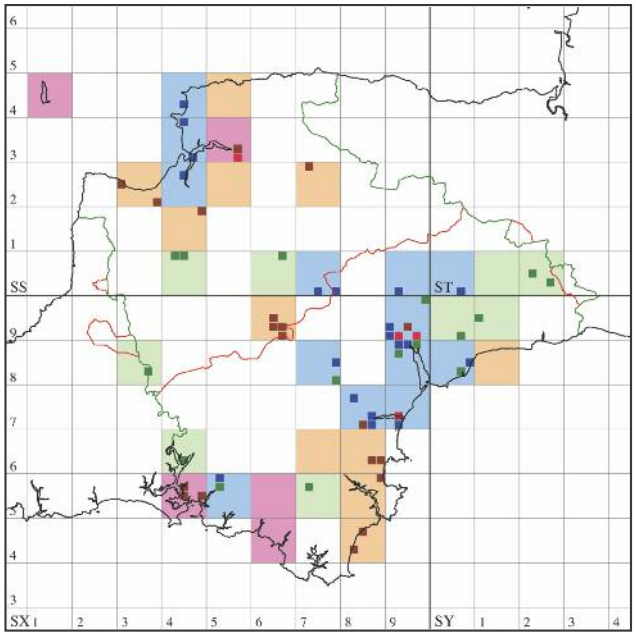
SS54 On roadside at Ilfracombe, SS529465, 2006, *R.M.H.Hodgson, M.Breeds & J.Breeds*.

SS70 In a clover field near Broadnymet, SS701006, 2003, *N.F.Stewart*.

● ***Datura stramonium*** L.
Thorn-apple – **Map 381** (overleaf)
Rare. Introduced, a neophyte; native range uncertain, now widespread in temperate and sub-tropical regions. On waste ground and as a weed in gardens and amongst crops. Seeds persist in the soil for long periods and may germinate following disturbance. Var. *chalybaea* W.D.J.Koch found once on cultivated ground at Paignton, with the normal form, E.F.Barnes, 1948, det. Kew (DA 1949 as var. *tatula* (L.) Torr.). Recent localised records are listed.
Flora p.472, Atlas p.148 (13), 1987 onwards (25).

Henbane *Hyoscyamus niger*

Map 381. *Datura stramonium* (Thorn-apple)



VC3

SX55 On disturbed ground at Boringdon Park, SX530580, 2006, *P.D.Pullen*.

SX87 Waste ground, Bovey Heathfield, SX824763 and SX825765, 2006, *C.J.Smith*. On allotments at Wolborough, SX860702, 2006, *R.E.N.Smith & C.J.Smith*. Waste ground, Jetty Marsh, SX860721, 2006, *R.E.N.Smith & C.J.Smith*.

SX97 Waste ground, Ness Car Park, Shaldon, SX938719, 2006, *R.E.N.Smith & C.J.Smith*. Pavement weed, Teignmouth, SX932739, 1996, *R.E.N.Smith*.

SX98 Maize field by Deepway Lane, SX932881, 2006, *N.F.Stewart*. By M5 near Countess Wear, SX9589, 2001, *N.F.Stewart*.

SX99 Alphington, SX913906, 2011, *C.Edey* and *J.J.Ison*. Exwick, SX909936, 2014, *J.J.Ison*. St. Leonard's, Exeter, SX9291, 1989, *K.Morris* det. *M.R.Hughes* (DA 1990). Waste ground, Sandy Park, Exeter, SX965916, 1999, *R.E.N.Smith & C.J.Smith*.

Thorn-apple *Datura stramonium*

SY08 Roadside, Otterton, SY0885, 2007, *I.Lakin*.

SS70 Arable field near Higher Hollacombe Farm, SS797002, 2005, *N.F.Stewart*.

SS90 Potato field at Yellowford, SS925005, 2001, *N.F.Stewart*.

ST00 Edge of maize field, Talaton, ST072002, 2006, *J.Boles*.

VC4

SS42 Bideford Quay, SS455269, 2014, *R.I.Kirby*.

SS43 Arable weed near Instow, SS475315, 2008, *DAB*. Croyde, SS442389, 2002, *A.Holwill*.

SS44 North end of Woolacombe Warren, SS4543, 2008, *N.F.Stewart*.

SS53 By new roadworks Barnstaple, SS5731, 1988, comm. *B.P.Thurlow* (DA 1989).

SS70 With swedes, Paschoe Dairy Farm, SS751015, 2005, *N.F.Stewart*.

● ***Datura ferox*** L.
Angel's-trumpets
Extinct. Introduced, casual; native in Mexico.

VC3

SX87 On wool waste at Bradley Woollen Mills, SX853711, 1957, *M.McCallum Webster* (McCallum Webster 1959).

● ***Physalis peruviana*** L.
Cape-gooseberry
Very rare. Introduced, a neophyte; native in South America. Occasional weed on disturbed soils.
1987 onwards (3).

VC3

SX55 On disturbed ground at Boringdon Park, SX530580, 2006, *P.D.Pullen*.

SX65 Arable field, east of Hookmoor Cross, SX686569, 2003, *N.F.Stewart*.

SX88 On compost pile at Poolmill Cross, SX807820, 2005, *N.F.Stewart*.

● ***Physalis alkekengi*** L.
Japanese-lantern
Extinct. Introduced, a neophyte; native in Europe. Casual in Devon.

VC3

SX96 Cultivated ground at Paignton, 1949, *E.F.Barnes* det. *Kew* (DA 1949).

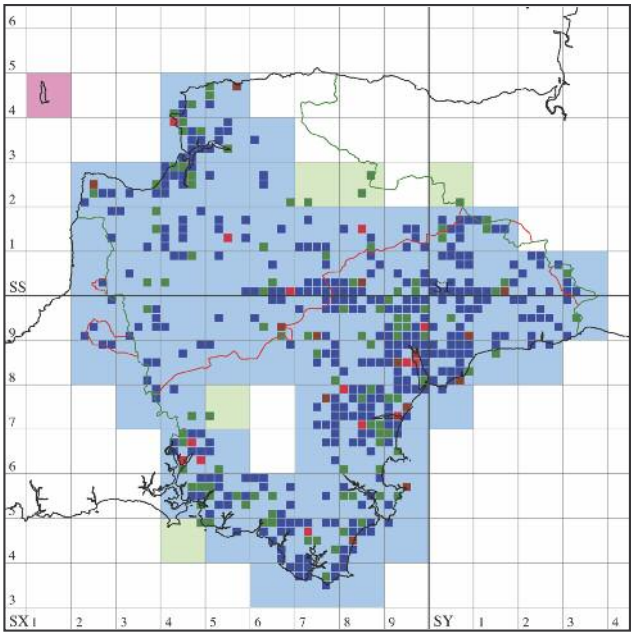
● ***Physalis ixocarpa*** Brot. ex Hornem.
Tomatillo
Extinct. Introduced, casual; native in Mexico.

VC3

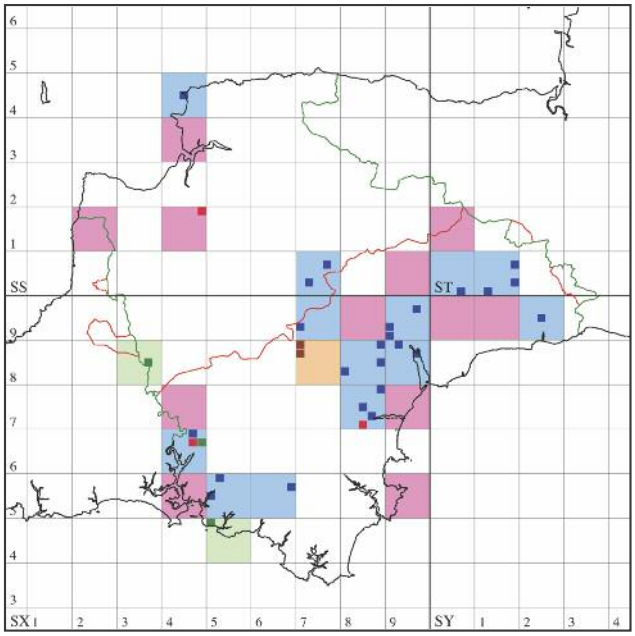
SX87 On wool waste at Bradley Woollen Mills, SX853711, 1957, *M.McCallum Webster* (McCallum Webster 1959).

● ***Solanum nigrum*** L.
Black Nightshade – **Map 382**
Frequent. Native. Waste ground and arable fields with a preference for nutrient rich soils. The near doubling of the number of tetrads in which it has been recorded since 1984

Map 382. *Solanum nigrum* (Black Nightshade)



Map 383. *Solanum lycopersicum* (Tomato)



may reflect current agricultural practice. It can be particularly abundant amongst maize. Only subsp. *nigrum* has been recorded.
Flora p.471, Atlas p.147 (187), 1987 onwards (353).

● ***Solanum physalifolium*** Rusby
Green Nightshade
Very rare. Introduced, a neophyte; native in South America. Casual on waste ground.
1987 onwards (5).

VC3

SX55 On disturbed ground at Boringdon Park, SX530580, 2006, *P.D.Pullen & D.Fenwick* (**RENS**).

SX97 Warren Golf Course, Dawlish, on recently built bank, SX980787, 2011, *J.J.Ison*.

SX99 On waste ground at Exeter, SX9693, 1997, *L.J.Margetts & L.M.Spalton* (DA 1998); 107 plants on south verge of A30 and waste ground in same area, 1998, *I.P.Green*. On disturbed ground at Alphington, SX9190, 2011, *C.Edey* conf. *J.J.Ison* (DA 2012).

SY08 The Maer, Exmouth, SY0080, 1995, *R.Takagi-Arigho* det. *E.J.Clement* (DA 1996).

● ***Solanum dulcamara*** L.
Bittersweet
Common. Native. Woodland edges, thickets and, especially, in moist places by lakes, streams, and ditches and at the upper end of beaches. Sometimes in surprisingly dry locations. Only absent from Dartmoor and Exmoor.
Flora p.471, Atlas p.147 (1138), 1987 onwards (778).

● ***Solanum tuberosum*** L.
Potato
Occasional. Introduced, a neophyte; native in South America. Found occasionally as a garden throw-out in waste places, more frequently as a relic of earlier cultivation amongst other crops.
1987 onwards (38).

● ***Solanum lycopersicum*** L.
Tomato – **Map 383**
Occasional. Introduced, a neophyte; native in Central and South America. From discarded fruit and from sewage contamination on waste ground and arable fields.
Atlas as *Lycopersicon esculentum* Mill. p.148 (3), 1987 onwards (36).

● ***Solanum laciniatum*** Aiton
Kangaroo-apple
Very rare. Introduced, a neophyte; native in Australia. Casual in Devon.
1987 onwards (1).

VC3

SY07 Two large plants on waste ground at Exmouth, SY0179, 1989, *J.A.Philpott* det. *L.J.Margetts* (DA 1990).

Bittersweet *Solanum dulcamara*

● ***Solanum rostratum*** Dunal
Buffalo-bur
Very rare. Introduced, casual; native in North America.
1987 onwards (3).

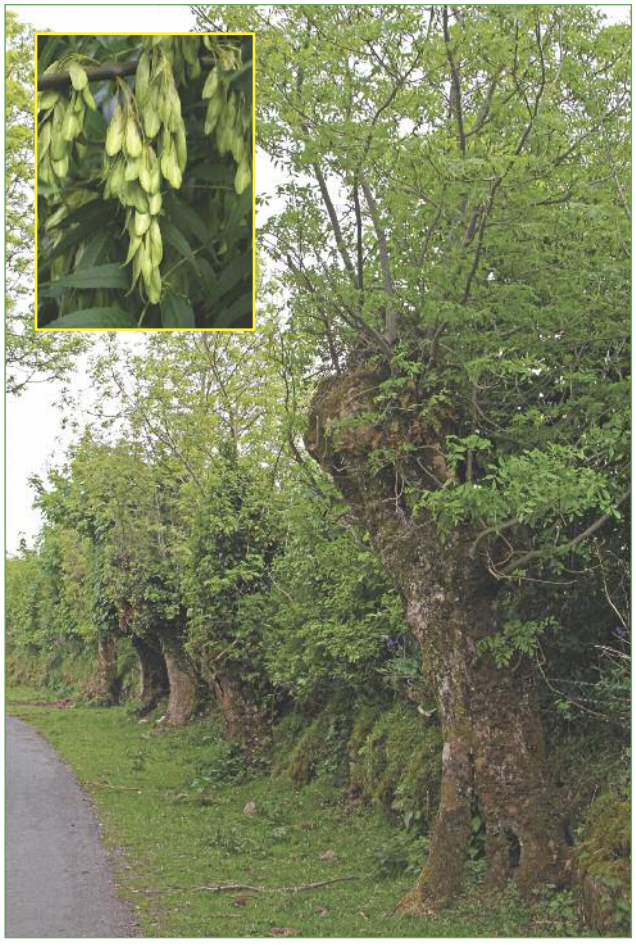
VC3
SX78 Near Blackingstone Rock, SX790859, 2008, *N.F.Stewart*.
SX84 In arable field, Start Farm, Slapton, SX808450, 1996, *C.Riley* (DA 1997, **LJM**).

VC4
SS61 Chulmleigh, SS672164, 2006, *E.Stenger* det. *R.M.H.Hodgson*.

● ***Solanum diflorum*** Vell.
Winter-cherry
Very rare. Introduced, casual; native in South America. The familiar house plant formerly known as *S. capsicastrum* Link ex Schauer.
1987 onwards (1).

VC3
SX55 On disturbed ground at Boringdon Park, SX530580, 2006, *D.Fenwick*.

● ***Nicotiana rustica*** L.
Wild Tobacco
Extinct. Introduced, casual; native in North America.
Flora p.473, 1987 onwards (0).



Ash *Fraxinus excelsior*

VC4
SS91 Tiverton, 1929, *W.M.Watts* (Druce 1930b).

● ***Nicotiana alata*** Link & Otto
Sweet Tobacco
Very rare. Introduced, casual; native in South America. On waste ground and disturbed soil.
1987 onwards (3).

VC3
SX88 On compost pile at Poolmill Cross, SX807820, 2005, *N.F.Stewart*.
SY08 Roadside at Burnthouse Farm, SY0887, 2007, *I.Lakin*.

VC4
SS53 On waste ground at Barnstaple, SS5532, 1997, *W.H.Tucker*.

● ***Nicotiana* × *sanderae*** W.Watson
N. alata × *N. forgetiana*
Very rare. Introduced, a neophyte; garden origin.
1987 onwards (1).

Reported from **VC3**: **SS90** (BSBI Atlas).

● ***Nicotiana forgetiana*** Hemsl.
Red Tobacco
Very rare. Introduced, casual; native in South America.
1987 onwards (1).

VC3
SX97 Single plant on waste ground at Dawlish, SX980786, 2003, *P.R.Green*.

● ***Petunia* × *hybrida*** (Hook.)Vilm.
P. axillaris (Lam.) Britton, Sterns & Poggenb. × *P. integrifolia* (Hook.) Schinz & Thell.
Petunia
Very rare. Introduced, a neophyte; garden origin. A garden escape.
1987 onwards (5).

VC3
SX55 On disturbed ground at Boringdon Park, SX530580, 2006, *P.D.Pullen & D.Fenwick*.
SX99 By river at Brampford Speke, SX9298, 2010, *N.F.Stewart*.
SS80 Pavement weed, Crediton, SS834002, 2013 and 2014, *D.C.G.Cann*.

VC4
SS53 On waste ground at Barnstaple, SS5532, 1997, *W.H.Tucker*.
SS60 North Tawton, SS6601, 2011, *R.M.H.Hodgson*.

Also recorded from **VC3**: **SX85**, **SY18** (BSBI Atlas).

● ***Salpiglossis sinuata*** Ruiz & Pav.
Painted Tongue
Extinct. Introduced, casual; native in South America. A garden escape.
1987 onwards (1).

VC3
SX55 On disturbed ground at Boringdon Park, SX530580, 2006, *D.Fenwick*.
SX99 On waste ground, Exeter, 1929, *G.C.Druce* (Druce 1931a).

Oleaceae

● ***Forsythia* × *intermedia*** Zabel
Forsythia
F. suspensa (Thunb.) Vahl × *F. viridissima* Lindl.
Rare. Introduced, a neophyte; garden origin. A garden throw-out or, perhaps, planted.
1987 onwards (16).

VC3
SX54 By coast path, Wembury Point, SX5048, 2006, *R.E.N.Smith & C.J.Smith*.
SX55 Woodland north of Efford Crematorium, SX5056, 2007, *P.D.Pullen*.
SX97 Roadside near The Beacon, SX931709, 2007, *R.E.N.Smith & C.J.Smith*.
SX99 By the Exeter Canal, SX925909, 2011, *J.J.Ison*.

VC4
SX39 In hedge at Blagdon, SX369976, 2007, *R.M.H.Hodgson*.
SS42 On churchyard wall, Littleham, SS443235, 2008, *R.M.H.Hodgson*.
SS50 In a hedge, Wooladon, SS524075, 2009, *R.M.H.Hodgson*.
SS60 Waste ground at Loosedon, SS616097, 2008, *R.M.H.Hodgson*. Bouchers Hill, North Tawton, tetrad SS6602, 2008, *R.M.H.Hodgson*.
SS62 In hedge at Hearson Hill, SS606296, 2011, *R.M.H.Hodgson*.
SS63 Landkey, tetrad SS6030, 2010, *R.M.H.Hodgson*.
SS70 Planted near Bow, SS7101, 2004, *N.F.Stewart*.
SS74 Near Houses, SS7647, 2007, *C.Giddens*.

Also recorded from **VC3**: **SX84**, **ST10** (BSBI Atlas).

● ***Jasminum nudiflorum*** Lindl.
Winter Jasmine
Very rare. Introduced, a neophyte; native in China.
1987 onwards (1).

VC3
SY08 On cliff top at Budleigh Salterton, SY0681, 2009, *R.E.N.Smith & C.J.Smith* (DA 2010).

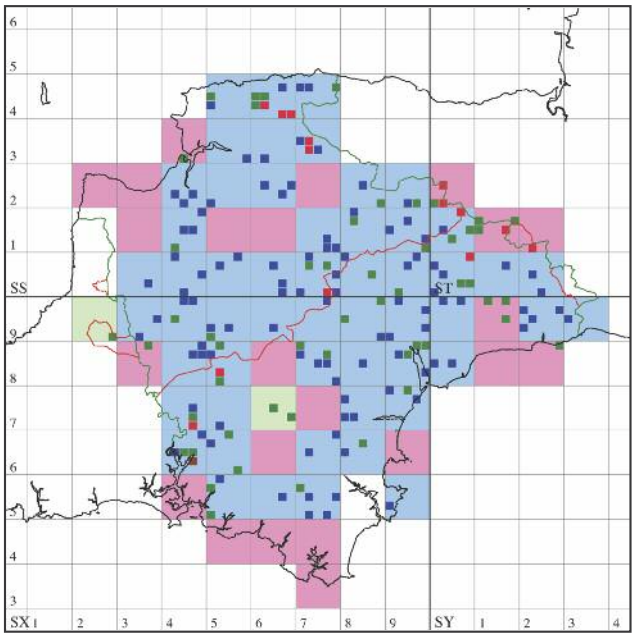
● ***Fraxinus excelsior*** L.
Ash
Very common. Native. Woodland, scrub, hedges and on waste ground. Only absent from the higher moorland. Mortality of ash has been increasingly observed in European countries during the last ten years associated with a new species of fungal pathogen, *Chalara fraxinea* T.Kowlowski, the asexual (anamorphic) stage of a fungus that was subsequently named *Hymenoscyphus pseudoalbidus* V.Queloz, C.R.Grünig, R.Berndt, T.Kowalski, T.N.Sieber & O.Holdenrieder (Queloz *et al.* 2011). It was first found in the United Kingdom in a consignment of trees sent from Holland in February 2012. By February 2014 infected plants had been located at 26 nurseries, 345 recently planted sites and 261 established woodlands across Great Britain and Northern Ireland (Forestry Commission 2014). Infected mature trees, not associated with the nursery trade, were mostly found on the east and south coasts and may have been infected by wind-blown spores. Infected sites included four recently planted sites in South Devon and one in the wider environment. There were no reports from North Devon but infection had been confirmed from eastern Exmoor. If the disease follows the same pattern as in mainland Europe we are likely to see further infection and death of trees in Devon in the foreseeable future. It is hoped that natural resistance in some trees will eventually lead to a resistant population.
Flora p.454, Atlas p.129 (1658), 1987 onwards (1593).

● ***Syringa vulgaris*** L.
Lilac – **Map 384**
Frequent. Introduced, a neophyte; native in southeastern Europe. Often naturalised in hedges where it spreads by suckering. Usually near or as a relic of habitation. Perhaps under-recorded in the past.
Atlas p.129 (69), 1987 onwards (131).

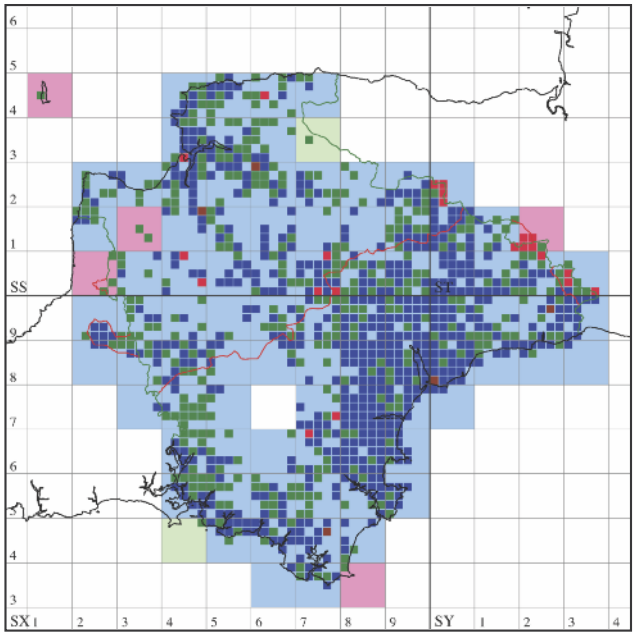
● ***Ligustrum vulgare*** L.
Wild Privet – **Map 385** (overleaf)
Common. Native. Hedges and amongst scrub, especially on the coast. It has a preference for calcareous or base-rich soils.
Flora p.454, Atlas p.129 (799), 1987 onwards (600).

● ***Ligustrum ovalifolium*** Hassk.
Garden Privet – **Map 386** (overleaf)
Frequent. Introduced, a neophyte; native in Japan. A persistent garden relic or throw-out on waste ground and in hedges.
1987 onwards (184).

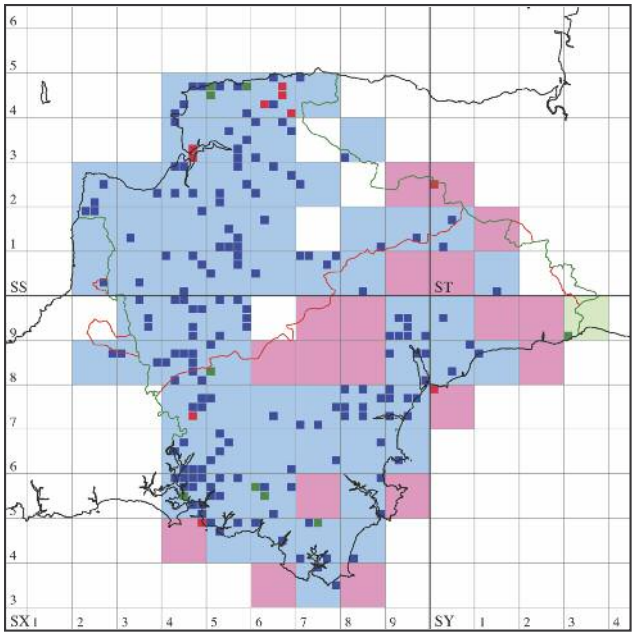
Map 384. *Syringa vulgaris* (Lilac)



Map 385. *Ligustrum vulgare* (Wild Privet)



Map 386. *Ligustrum ovalifolium* (Garden Privet)



Calceolariaceae

● ***Calceolaria chelidonioides*** Kunth
Slipperwort
Extinct. Introduced, a neophyte; native in South America.
Casual in Devon.
1987 onwards (0).

VC4
SS42 Bideford, 1931, *G.C.Druce* (BSBI Atlas, **OXF**).

Veronicaceae

● ***Digitalis purpurea*** L.
Foxglove
Common. Native. Hedgebanks, woods, waste ground, sea cliffs and reaching high up on the moors beside streams and on tors.
Flora p.483, Atlas p.153 (1707), 1987 onwards (1387).

● ***Digitalis lanata*** Ehrh.
Grecian Foxglove
Very rare. Introduced, casual; native in southern Europe. A rare garden escape.
1987 onwards (1).

VC3
SX45 By the Plym estuary on disturbed ground, SX499545, 2012, *P.D.Pullen* (Pullen 2012, DA 2013).

● ***Erinus alpinus*** L.
Fairy Foxglove
Rare. Introduced, a neophyte; native in southwest Europe. Established and increasing on old walls in towns and villages.
Flora p.483, Atlas p.153 (6), 1987 onwards (21).

VC3
SX45 Sutherland Road, Plymouth, SX4755, 2007, *P.D.Pullen.*
SX46 North Broadley, Roborough, SX4963, 2007, *P.D.Pullen.*
SX47 Tetrad SX4272, 1979, *M.F.Spooner.* Lamerton area, SX4476, 1974, *M.F.Spooner*. Tavistock, tetrads SX4674 and SX4874, 1974, *M.F.Spooner.* Tavistock SX4774 and SX4874, 2008, *R.M.H.Hodgson.*
SX55 Brixton, SX5452, 2004, *P.D.Pullen.* Plympton St. Maurice, tetrad SX5454, 2006, *P.D.Pullen.*
SX66 Tetrad SX6960, 1963, *F.H.Perring* (BSBI Atlas).
SX75 Avonwick, SX7158, 1978, *M.F.Spooner*; 2008, *R.E.N.Smith.*
SX78 Sandy Park, SX7189, 1958, *R.Skerrett.*

Grecian Foxglove *Digitalis lanata*