**VC3**
SX65 Naturalising on old wall at Flete, SX626513, 2007, *A.J.Byfield*.

## Simaroubaceae

● ***Ailanthus altissima*** (Mill.) Swingle
Tree-of-Heaven
Very rare. Introduced, a neophyte; native in China.

**VC3**
**SX99** Small sapling, possibly self-sown at Riverside Valley Park, Exeter, SX9291, 2011, *J.J.Ison*.

## Malvaceae

● ***Malva moschata*** L.
Musk-mallow
Frequent. Native. Widespread in dry hedgerows, field boundaries, and other grassy places. Found throughout but absent from the moors and wetter ground.
Flora p.173, Atlas p.103 (410), 1987 onwards (307).

● ***Malva sylvestris*** L.
Common Mallow
Frequent. Native. Found in a variety of open situations including roadsides, waste ground and field boundaries, often in the vicinity of houses and farm buildings. Commonest in the south and east and absent from large areas of wetter ground.
Flora p.174, Atlas p.103 (436), 1987 onwards (334).

● ***Malva parviflora*** L.
Least Mallow
Extinct. Introduced, a neophyte; native in southwest Europe and the Mediterranean. Casual in Devon.
Flora p.175, Atlas p.103, 1987 onwards (0).

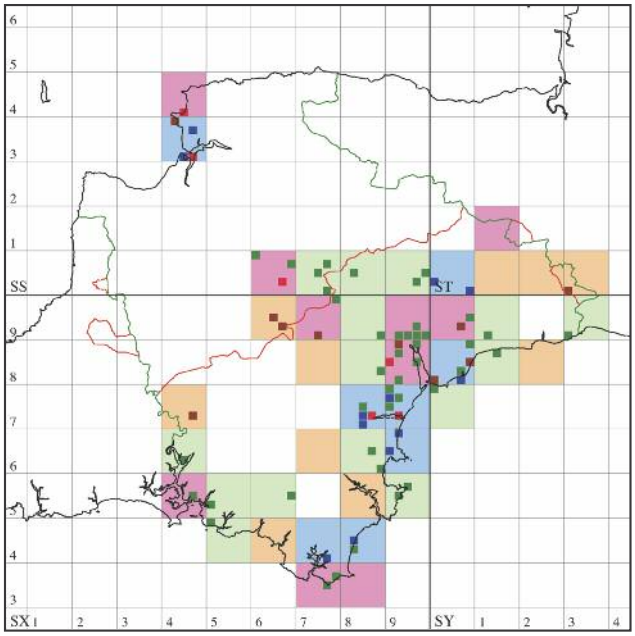
**VC3**
SX87 On wool waste at Bradley Woollen Mills, SX853711, 1957, *M.McCallum Webster* (McCallum Webster 1959); 1969, *M.C.Hockaday*.

**VC4**
SX69 Belstone, 1930, *H.H.Harvey* (Druce 1932).

● ***Malva pusilla*** Sm.
Small Mallow
Very rare. Introduced, a neophyte; native in Europe. Casual in Devon.
Flora p.175, Atlas p.103, 1987 onwards (1).

**VC3**
SX87 Bradley Woods with some doubt, 1929 (Flora). On wool waste at Bradley Woollen Mills, SX853711, 1957, *M.McCallum Webster* (McCallum Webster 1959); 1969, *A.J.C.Beddow* (Atlas).
SX98 Exmouth (Flora, **RAMM**).

**Map 248. *Malva neglecta* (Dwarf Mallow)**




**VC4**
SX61 Chulmleigh (DA 1910).SX69 Belstone, *H.H.Harvey* (Flora).
**SS42** On disturbed ground by East Pond, Kenwith Nature Reserve, SS448272, 1993, *W.H.Tucker* (DA 1994).
SS53 Bishop's Tawton (Flora, **RAMM**).
SS72 South Molton, *H.Saunders* (Saunders 1906, **RAMM**).

● ***Malva neglecta*** L. Wallr.
Dwarf Mallow – **Map 248**
Rare. Introduced, an archaeophyte. Found in a variety of waste places. Local in South Devon where it is found in the south and east. In North Devon almost confined to the far northwest. Recent localised records are listed.
Flora p.174, Atlas p.103 (59), 1987 onwards (25).

**VC3**
**SX74** South Pool, SX776403, 2009, *R.E.N.Smith*.
**SX84** On beach at Slapton Ley, SX825441, 2004, *T.Purches*; SX827443, 2006, *R.E.N.Smith & C.J.Smith*; 2012, *D.C.Wood & M.Woods*.

Musk-mallow *Malva moschata*

**SX87** Pavement weed at Highweek, SX849717, 2009, *C.J.Smith*. Waste ground near Teigngrace, SX856733, 2006, *R.E.N.Smith & C.J.Smith*. Near Passage House, SX877723, 1995, *R.E.N.Smith*.
**SX96** Pavement weed, Torquay, SX905658, 2009, *R.E.N.Smith & C.J.Smith*. Roadside at Maidencombe, SX926684, 1995 and 2012, *R.E.N.Smith*.
**SX97** Roadside at Luton, SX900769, 2008, *R.E.N.Smith*. Coombe Valley allotments, Teignmouth, SX932739, 1996, *R.E.N.Smith*.
**SX98** Bickham Farm, Kenn, SX9184, 1998, *D.Bolton* (DA 1999).
**SY08** Garden weed at Budleigh Salterton, SY0681, 2009, *R.E.N.Smith & C.J.Smith*.
**ST00** Garden weed at Park Farm, Kensham, ST003034, 1996, *L.J.Margetts*; 2010, *R.E.N.Smith*. Pavement weed at Payhembury Church, ST089017, 1998, *L.J.Margetts & L.M.Spalton*; 2010, *R.E.N.Smith*.

**VC4**
**SS43** Northam Burrows, 1987, *M.Tulloh*; SS451304, SS448310 and SS444318, 2004 and 2009, *NDBG*. Instow, tetrad SS4630, 1987, *M.Tulloh*. Arable weed in Braunton Fields, SS470362, 2003, *N.F.Stewart*.
**SS44** Cliff top at Putsborough, SS447408, 1999, *W.H.Tucker*.
**SS60** Farmyard, Ashridge Court, North Tawton, SS670032, 1994, *S.G.Madge*.

● ***Malva verticillata*** L.
Chinese Mallow
Extinct. Introduced, casual; native in eastern Asia.

**VC3**
SX45 Plymouth, SX477545, 1958, *M.A.Wilson* (BSBI Atlas).
SX87 Ogwell, *W.K.Martin* (DA 1929).

Dwarf Mallow *Malva neglecta*, p.343

● ***Malva setigera*** Schimp. & Spenn.
Rough Marsh-mallow
Very rare. Introduced, a neophyte; native in southern Europe. On disturbed soils from bird seed or as a garden escape.
Flora as *Althaea hirsuta* L. p.172, Atlas as *Althaea hirsuta* L. p.104 (2), 1987 onwards (3).

**VC3**
**SX45** One plant on disturbed ground at Mount Wise, Plymouth, SX4554, 1997, *R.A.Stevens* (DA 1998).
**SX46** Four plants on roadside near Plymouth Airport, 2010, SX498605, *E.Barber* (DA 2010).
SX66 Tetrad SX6862, 1976, *M.F.Spooner* (Atlas).
SX95 Paignton, *C.M.Clifford* (DA 1915).
SX96 Torquay, *E.S.Todd* (DA 1921); 1925, *R.Carr-Smith* (**TOR**). Meadfoot, Torquay, 1944, *T.Stephenson* (**TOR**). Lincombe Drive, Torquay, 1946, *T.Stephenson* (DA 1927). Hope's Nose, SX9463, 1921, *E.S.Todd* (Flora); 1922, *D.Powell*. Ilsham Drive, but site subsequently tipped on, *G.T.Fraser* (Flora).
**SY08** On disturbed ground at Budleigh Salterton, SY0681, 2006, *A.Newton* (DA 2007, **RENS**).
SY09 Ottery St. Mary, tetrad SY0692, 1970, *E.D.Tallent* (DA 1971).

**VC4**
SS44 On rubbish tip at Woolacombe, SS4543, 1928, *J.C.Davy* (DA 1929, **BIRM**).
SS53 Pilton, 1888, *W.P.Hiern* (Flora).

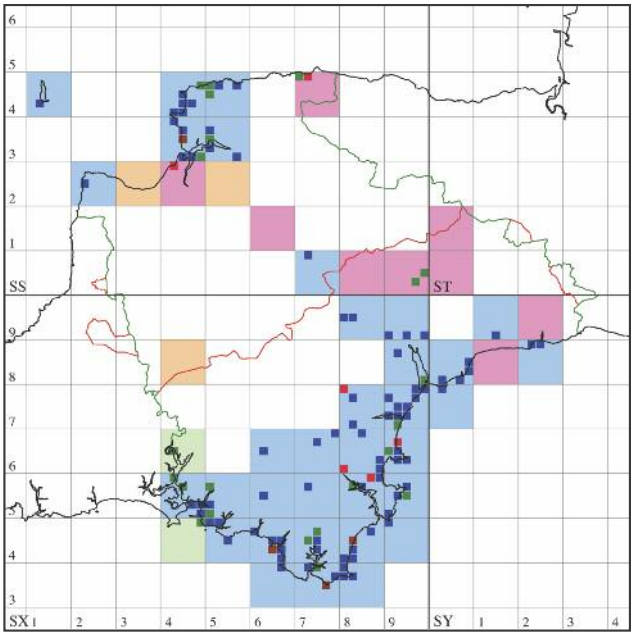
● ***Malva arborea*** (L.) Webb & Berthel.
Tree-mallow – **Map 249**
Occasional. Native. Once confined to frost-free coastal situations on cliffs, roadsides and waste places. More recently recorded from a number of inland sites.
Flora as *Lavatera arborea* L. p.172, Atlas as *Lavatera arborea* L. p.103 (57), 1987 onwards (93).

● ***Malva pseudolavatera*** Webb & Berthel.
Smaller Tree-mallow
Very Rare. Nationally Rare. Introduced, a neophyte; native in the Mediterranean. Roadsides and waste ground. The Topsham Quay population survives, although the car park was resurfaced with tarmac soon after its discovery and it is now restricted to waste ground in the vicinity of the boat yard. Records were previously published as *Lavatera cretica* L.
1987 onwards (3).

**VC3**
**SX98** Over 60 plants on Topsham Quay, SX966878, 1991, *L.J.Margetts* conf. *N.K.B.Robson* (DA 1993, **BM**); regularly since to 2014, *R.E.N.Smith & C.J.Smith*. Road verge between quay and Topsham Station, 1992, SX9687, 1991 *L.J.Margetts* conf. *N.K.B.Robson* (DA 1993). Three plants in hedgebank near Belvedere, Lympstone, SX990845, 1997, *L.J.Margetts* (DA 1998, **LJM**).

**VC4**
**SS72** North Molton, SS738298, 1998, *S.Peck* det. *W.H.Tucker* (DA 1999).

**Map 249. *Malva arborea* (Tree-mallow)**




● ***Malva* × *clementii*** (Cheek) Stace
Garden Tree-mallow
Rare. Introduced, a neophyte; garden origin. A garden escape or throw-out on roadsides and waste ground.
1987 onwards (13).

**VC3**
SX96 By coast path, Maidencombe, SX9268, 1995, *L.J.Margetts & L.M.Spalton* (DA 1996).

**VC4**
**SS21** Welcombe, SS217186, 1999, *P.Greenwood*.
**SS41** Torrington, SS490194, 1995, *W.H.Tucker* (DA 1996).

Also recorded from **VC3**: **SX45**, **SX55**, **SX76**, **SX96**, **SY09**, **SS80**, **SS90**, **ST01**, **ST11** and **VC4**: **SS52** (BSBI Atlas).

● ***Malva trimestris*** (L.) Salisb.
Royal Mallow
Extinct. Introduced, casual; native in the Mediterranean.
Flora as *Lavatera trimestris* L. p.173, Atlas as *Lavatera trimestris* L. p.103, 1987 onwards (0).

**VC3**
SX96 St. Marychurch, *C.E.Larter* (DA 1911).

● ***Althaea officinalis*** L.
Marsh-mallow
Extinct. Introduced in Devon, native in south and east England and South Wales. Coastal habitats on the edge of saltmarshes. The authors of the Flora were sceptical regarding a record from Ilfracombe.
Flora p.172, Atlas p.104 (0), 1987 onwards (0).

**VC3**
SX46 Introduced and once abundant at Lopwell, *Mr. Morris* (Banks 1830, Briggs 1880); 1836, *E.Palmer* (**SLBI**). Maristow, 1840, *W.S.Hore* (Hore 1842) is the same station (Briggs 1880).
SX84 At Sands Hotel, Slapton, *R.M.Milne* (Flora).
SX86 Fields near the railway at Totnes, *S.Hannaford* (Hannaford 1851).

Also recorded from **VC3**: SY09 (BSBI Atlas).

● ***Alcea rosea*** L.
Hollyhock
Very rare. Introduced, garden origin from Asian parents. A garden escape on roadsides and waste ground.
Flora as *Malva alcea* L. p.175, 1987 onwards (7).

**VC3**
**SX55** Waste ground at Boringdon Hill, SX538580, 2006, *P.D.Pullen*.
SX86 Littlehempston, pre-1797 (Flora).
**SY28** Two self-sown plants, Seaton Hole, SY2389, 1994, *L.J.Margetts & L.M.Spalton* (DA 1995).

**VC4**
**SS52** On road side near Horwood, SS515275, 2009, *R.M.H.Hodgson*.
**SS64** Track by church, Martinhoe, SS667487, 2009, *C.J.Giddens & A.Butcher*.

Also recorded from **VC3**: **SX79**, **SX85**, **SY29, ST20** (BSBI Atlas).

● ***Abutilon theophrasti*** Medik.
Velvetleaf
Very rare. Introduced, casual; native in southeast Europe.
1987 onwards (1).

**VC3**
**SX99** On verge of A30, Exeter, SX9693, 1998, *P.R.Green*.

**Smaller tree-mallow *Malva pseudolavatera***

● ***Hibiscus trionum*** L.
Bladder Ketmia
Extinct. Introduced, casual; native in Europe, Asia and Africa.
Flora p.764, 1987 onwards (0).

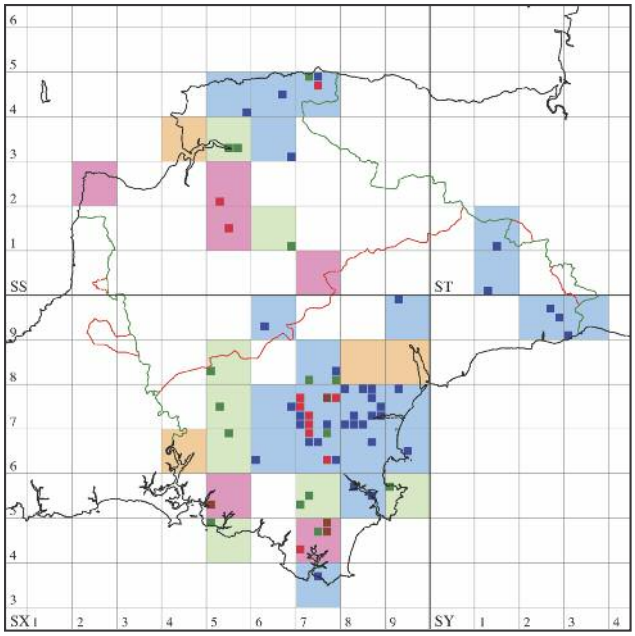
**VC3**
SX87 On wool waste at Bradley Woollen Mill, SX853711, 1957, *M.McCallum Webster* (DA 1959).
SY08 Exmouth, *H.J.Riddelsdell* det. *Kew* (DA 1939, **TOR**).

● ***Tilia platyphyllos*** Scop.
Large-leaved Lime
Rare. Nationally Scarce. Native but introduced in Devon. Always planted. Reported from 17 hectads in South Devon and five in the north.
Flora p.175, Atlas p.102, 1987 onwards (21).

● ***Tilia* × *europaea*** L.
*T. platyphyllos* × *T. cordata*
Lime
Frequent. Native with both parents in a few English woodlands, introduced in Devon. Widely planted on roadsides, in large gardens, churchyards and parkland.
Flora p.175, Atlas p.102 (233), 1987 onwards (255).

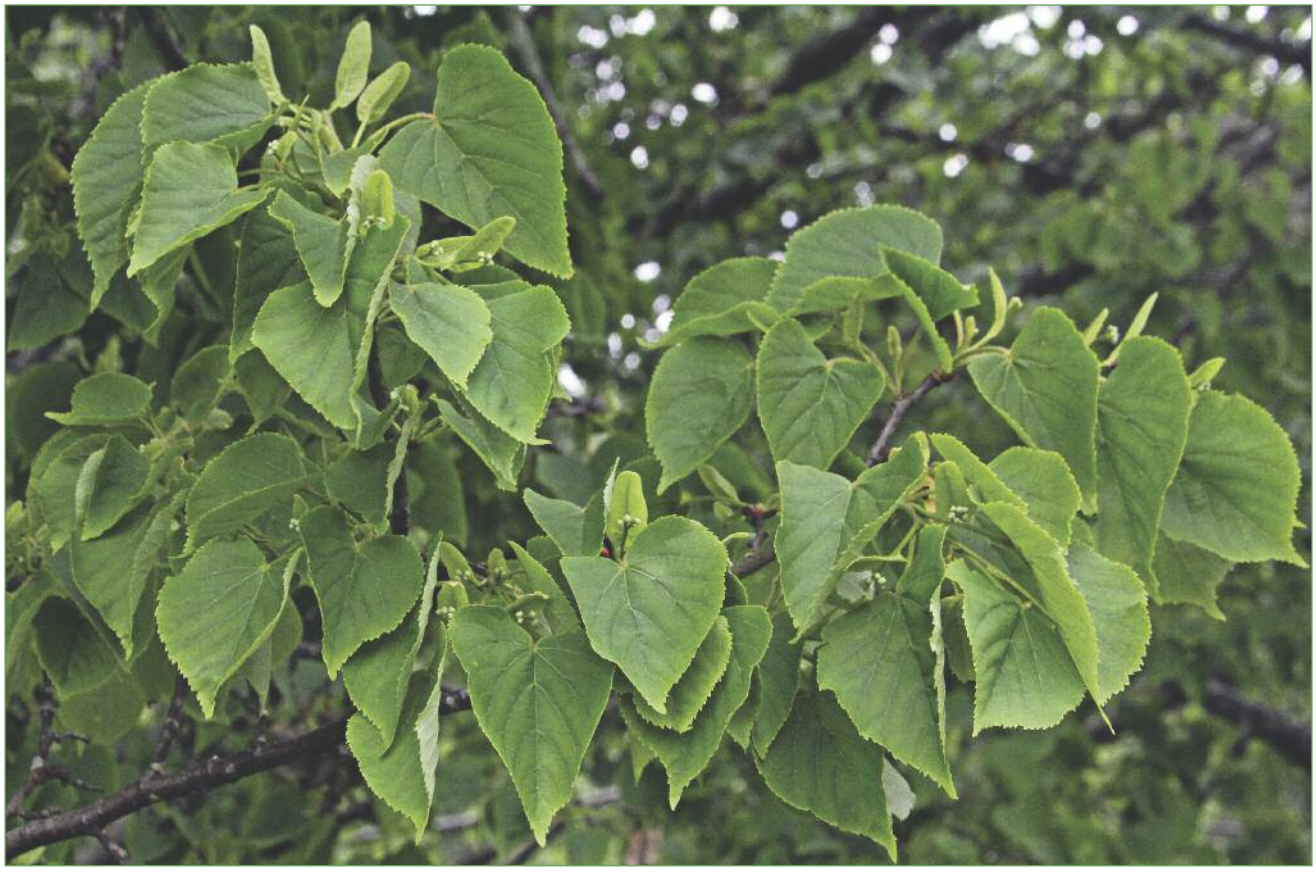
● ***Tilia cordata*** Mill.
Small-leaved Lime – **Map 250**
Occasional. Native. Hedgerows and woodlands. Occasionally planted. Commonest in South Devon where it has a preference for limestone soils.
Flora p.175, Atlas p.102 (24), 1987 onwards (44).

**Map 250. *Tilia cordata* (Small-leaved Lime)**




## Thymelaeaceae

● ***Daphne mezereum*** L.
Mezereon
Very rare. Nationally Scarce. Vulnerable on the British Red List. Native, but introduced in Devon. Probably always birdsown from garden plants.
Flora p.572, 1987 onwards (1).



**Small-leaved Lime *Tilia cordata***

**VC3**

SX65 Wood near Ivybridge, pre-1914, *H.W.Smith* (Druce 1916b).

**SX76** Four small plants (clearly flailed in past years) at top of cutting on south side of A38 at Peartree Junction, Ashburton, SX752690, 2012, *A.J.Byfield*.

● ***Daphne laureola*** L.
Spurge-laurel – **Map 251**
Occasional. Native. Woods, scrub and hedgerows, usually on base rich and calcareous soils. It occurs mainly in the south of the county, especially in the Torbay/Newton Abbot area. Populations are usually small or scattered through areas of suitable habitat. A notable concentration of about 75 plants was found in a roadside copse by Fircone Cottage near Cotleigh, ST215022, in 1995.
Flora p.572, Atlas p.104 (41), 1987 onwards (55).

● ***Thymelaea passerina*** (L.) Coss & Germ.
Spurge-flax
Extinct. Introduced, casual, native in the Mediterranean area and Asia. Not listed in the Flora but perhaps overlooked.

**VC4**

SS72 South Molton, *H.Saunders* (Saunders 1894).

## Cistaceae

● ***Helianthemum nummularium*** (L.) Mill.
Common Rock-rose
Rare. Native. Calcareous pastures, sea cliffs and quarries. Almost confined to the south and east and not reported from North Devon for many years. Gone or declining from the sites near Newton Abbot. It has never been seen at Berry Head by the Rangers, and records of this species in the Atlas from this site and from the tetrad to the southwest are unlikely to be correct. The records from the Salcombe area (Fairweather 1912) and the tetrad record, SX6448, 1978 (Atlas) are also out of range/habitat. In North Devon reports from Stoke Rivers in 1883 on slate, Miss Alexander (Flora) and Lundy, J.R.Chanter (Chanter 1877) seem equally unlikely. The record from Honiton (Flora) probably originates form Saunders (1901) and most likely refers to the coast near Rousdon. Other localised records are listed.
Flora p.122, Atlas p.109 (20), 1987 onwards (14).

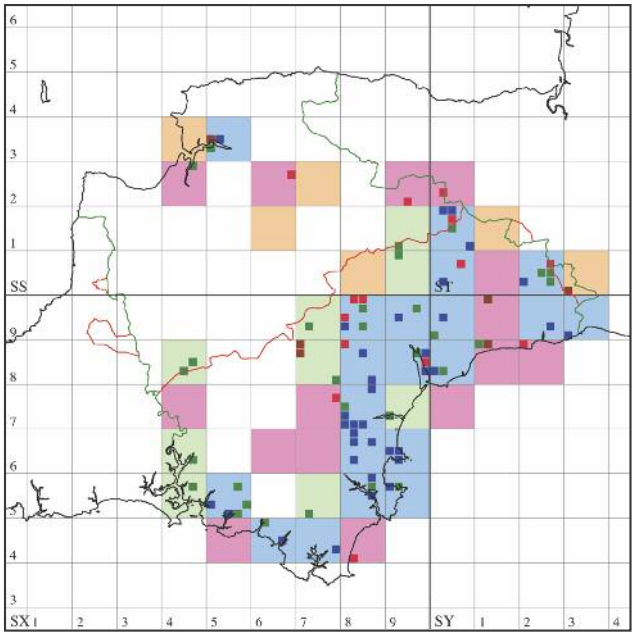
**VC3**

**SX85** End of railway viaduct near Broadsands, 1909, *A.H.Wolley-Dod* (Wolley-Dod 1910); 1926, *G.H.Douglas* (**TOR**); limestone railway cutting at Broadsands, SX894577, 1996, *R.E.N.Smith & C.J.Smith*. Galmpton, 1909, *A.H.Wolley-Dod* (Wolley-Dod 1910).

**SX86** Whilborough Down, SX866673, 1992, *R.E.N.Smith*. SX8567, 1982, *anon.* (BSBI Atlas).

**SX87** Bradley Woods (Flora, **RAMM**); SX8370 and SX8371, 1970, *M.C.Hockaday*; Broadridge Wood Quarry, 1979, *M.A.Stile*; SX839711, 1994 and 2006, *R.E.N.Smith*. Kingskerswell, 1848, *C.E.Parker* (**TOR**); *E.D.Morgan* (DA 1927). Ipplepen (Flora, **TOR**). Denbury (Flora).

**Map 251. *Daphne laureola* (Spurge-laurel)**




SX88 Tetrad SX8280, 1981, *J.M.Mullin* (Atlas).

**SX95** Paignton, 1906, *D.D.Cunningham* (**TOR**); downs near Fishcombe Point, 1909, *A.H.Wolley-Dod* (Wolley-Dod 1910); *E.D.Morgan* (DA 1927); tetrad SX9056, 1975, *R.B.Ivimey-Cook* (Atlas); Fishcombe Point, SX918571, 1992 and 2008, *R.E.N.Smith*; SX918569, 2010, *H.Gibbons*.

SX96 Torquay (Flora).

**SY18** Occasional on or close to the coast eastwards from Salcombe Mouth with recent records from: Salcombe Mouth, SY1487, 2010, *R.E.N.Smith*. Higher Dunscombe Cliff, SY156879, 2010, *R.E.N.Smith*. Dunscombe Cliff, SY156880, 1992, *R.E.N.Smith*. Lincombe, SY157881, 1998 and 2013, *R.E.N.Smith*. Cliff east of Lincombe, SY1688, 2010, *R.E.N.Smith*. Berry Camp, SY1888, 2011, *R.E.N.Smith & C.J.Smith*. Ball Hill, SY1988, 2009, *R.E.N.Smith & C.J.Smith*. Woodhouse, SY194898, 2009, *M.E.Reed & P.J.Wilson*.

**SY28** Occasional on or close to the coast with recent records from: Branscombe, SY2088, 2008, *J.J.Ison*. Gay's Farm, SY2089, 2006, *R.E.N.Smith*. Beer Head, SY2187, 2004, *R.M.Walls*; SY2287, 2003, *J.J.Ison*. Beer, SY2389, 2006 and 2011, *R.E.N.Smith*. The Plateau, Dowlands Cliff, SY2989, 1996, *DAB*; 2013, *D.J.Allen*.

SY29 SY2697 and SY2790, 1954, *anon.* (BSBI Atlas).

**SY39** Tetrad SY3090, 1972, *M.Parkinson* (Atlas). Lynch Cottage, SY309907, 2005, *DAB*. Humble Hollows, SY3090, 2005, *DAB*; 2013, *D.J.Allen*.

Also recorded from **VC3**: SX98, **ST11** (BSBI Atlas).

● ***Helianthemum* × *sulphureum*** Willd. ex Schltdl.
*H. nummularium* × *H. apenninum*
Very rare. Native. There are specimens of this hybrid from Churston Ferrers, Berry Head, Fishcombe and Dainton Common. L.J.Margetts comments that some of these may

be back crosses. *H. nummularium* is unknown at Berry Head and *H. appenninum* unknown at Dainton and Fishcombe. Seed of *H. apenninum* is believed to have been sown at one site "Fishcombe on Churston Ferrers and Brixham boundary, near Churston Point, where seeds of *H. polifolium* (*H. apenninum*) are said (DA 1911) to have been sown. In 1935 many plants with very small pale yellow flowers were found, T.Stephenson & G.T.Fraser." (Flora). It seems likely that all records resulted from deliberate introduction of the missing parent. It has persisted at Fishcombe to the present day.
Flora p.122, Atlas p.109, 1987 onwards (1).

**VC3**
SX86 Dainton (Whilborough) Common, *T.Stephenson* (**TOR**).
**SX95** Churston Ferrers, 1913, *C.E.Larter* (DA 1913, **TOR**); Fishcombe Point, 1935, *G.T.Fraser* & *T.Stephenson* (Flora, **TOR**); SX918570, 1991, *L.Lock*; 2009, *T.Hamston*. Berry Head, *T.Stephenson* (**TOR**).

● ***Helianthemum apenninum*** (L.) Mill. – see panel opposite

## Tropaeolaceae

● ***Tropaeolum majus*** L.
Nasturtium
Rare. Introduced, casual; a garden plant originating in South America but modified in cultivation. Widely grown in gardens, it occurs as a throw-out on waste ground and rubbish tips. Recorded from 19 hectads in VC3 and 9 hectads in VC4, all since 1987.
1987 onwards (29).

● ***Tropaeolum speciosum*** Poepp. & Endl.
Flame Nasturtium
Very rare. Introduced, a neophyte; native in Chile. A garden escape.

Recorded from **VC3**: **SX46**, **SX75** (BSBI Atlas).

## Limnanthaceae

● ***Limnanthes douglasii*** R.Br.
Meadow-foam
Very rare. Introduced, casual; native in western North America. Commonly grown in gardens and sometimes found on tips and waste ground. Recorded from five hectads in VC3 and four in VC4, all since 1987.
1987 onwards (9).

**VC3**
**SY29** Two large patches in lane, Axmouth Village, SY2591, 1994, *L.J.Margetts & L.M.Spalton* (DA 1995).

**VC4**
**SS21** Meddon, SS2717, 1992, *W.H.Tucker* (DA 1993).

Also recorded from **VC3**: **SX54**, **SX74**, **SX86**, **SY18** and **VC4**: **SS53**, **SS54**, **SS73** (BSBI Atlas).

**Common Rock-rose *Helianthemum nummularium*, p.347**

● ***Helianthemum apenninum*** (L.) Mill.
White Rock-rose
Very rare. Nationally Rare. Vulnerable on the British Red List. Native. Found only on the Torbay limestone where it was first recorded in 1804 at Babbacombe by Aaron Neck (Flora). Locally common in open grassland on thin soils over dry south facing limestone rocks and cliffs. Elsewhere in Britain it is known as a native plant only on the south facing slopes of Brean Down in Somerset.
Flora as *H. polifolium* Mill. p.123, Atlas p.109 (3), 1987 onwards (4).

**VC3**

**SX95** South of the South Fort, Berry Head, SX941559, 1989, *R.FitzGerald*. Berry Head, SX9456, 1903, *D.D.Cunningham* (Flora, **TOR**); then recorded regularly and still there, 2013, *R.E.N.Smith*.

**SX96** Daddyhole, 1912 (Flora); then recorded regularly in this area between Dyers Quarry, SX921628, 2007, *A.J.Byfield & R.E.N.Smith* and east of the Plain, SX927629, 2007, *R.E.N.Smith*. Babbacombe, pre-1804, *A.Neck* (Flora); 1903, *D.D.Cunningham* (**TOR**); then regularly in the vicinity of Long Quarry Point, Babbacombe, SX935650, 2012, *R.E.N.Smith*.

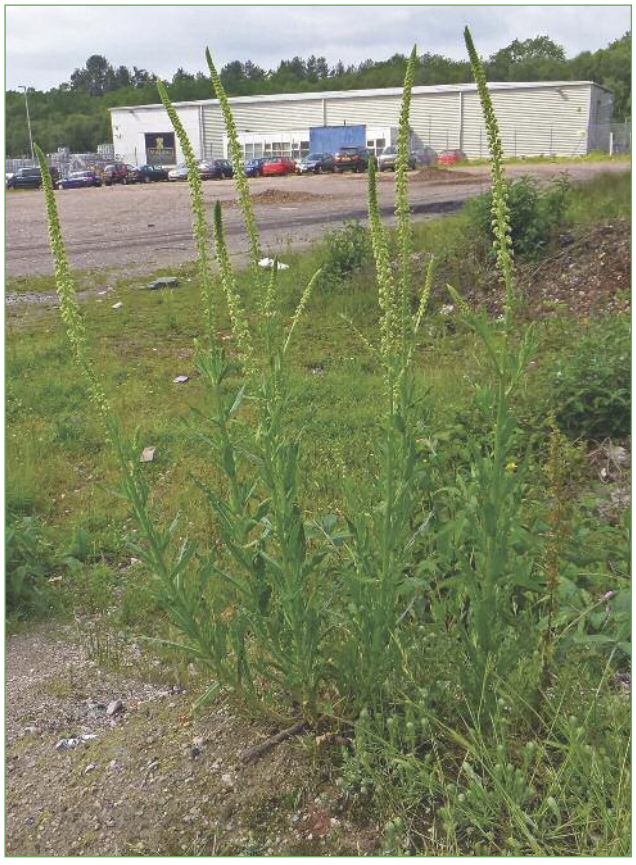
# Resedaceae

● ***Reseda luteola*** L.
Weld – **Map 252**
Frequent. Introduced, an archaeophyte. Waste ground, roadsides and poor pastures. Locally frequent and particularly common in the Plymouth area.
Flora p.121, Atlas p.63 (119), 1987 onwards (132).

● ***Reseda alba*** L.
White Mignonette
Very rare. Introduced, casual; native in the Mediterranean. Usually on waste ground. Once naturalised at Braunton Burrows but not reported in recent years.
Flora p.121, Atlas p.63 (1), 1987 onwards (1).

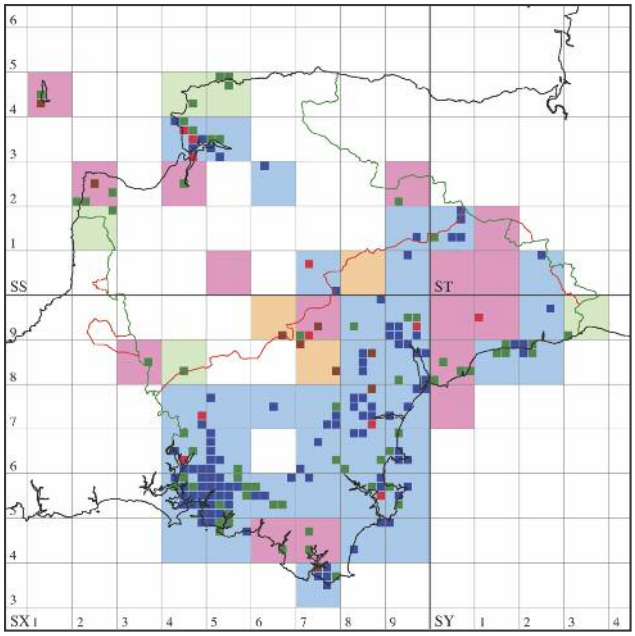
**VC3**

SX45 Cattedown, Plymouth, 1850, *A.F.White* (**BON**); 1876, *E.M.Holmes* (**SLBI**). By the railway, North Road, Plymouth, 1863, *T.R.A.Briggs* (Briggs 1863). On wall at Stoke Damerel, *T.R.A.Briggs* (Briggs 1880). Plymouth, 1890 (Flora).
SX46 Hooe, 1844, *G.Bartlett* (Keys 1860).
SX86 Paignton, 1907, *H.W.Pugsley* (Pugsley 1935b).
SX87 Wolborough tip, *G.T.Fraser* (Flora).
SX88 Ashton, 1929, *E.H.Aviolet* (Flora).
SX95 Hectad record, 1918, *J.C.Davy* (BSBI Atlas). Brixham, 1919, *M.Cobbe* (Flora).
SX97 Teignmouth, 1844, *R.C.R.Jordan* (**BIRM**). Shaldon, *B.Cresswell* (Flora).



Weld *Reseda luteola*

Map 252. *Reseda luteola* (Weld)




**SX99** Road embankment at Streatham, Exeter, 1932, *W.K.Martin*. A patch on a bank at Middlemoor, Exeter, SX952907, 2005, *N.F.Stewart* (DA 2006).
SY08 Exmouth, *G.T.Fraser* (Flora). East Budleigh, *M.L.Williams* (DA 1942). Tetrad SY0484, 1983, *W.H.Tucker* (Atlas).

**VC4**

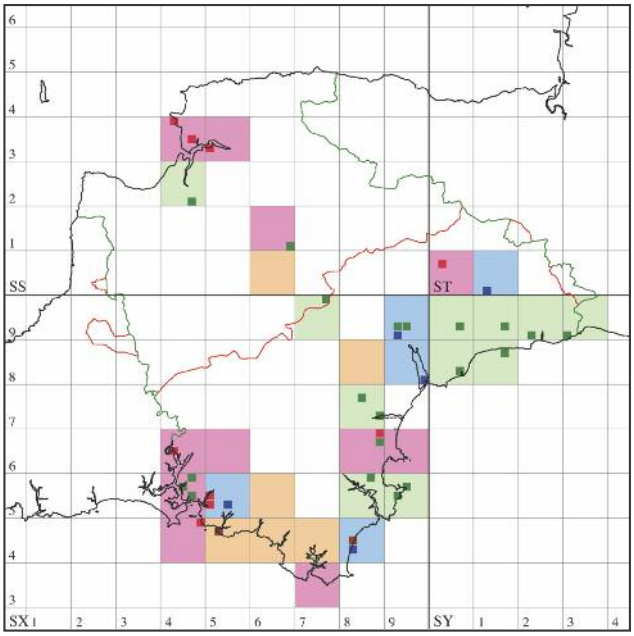
**SS42** Bideford Quay, *D.Hilton* (DA 1953); Bideford, SS4527, 1986, *J.A.Philpott* (DA 1987); on site of demolished building, Bideford, SS453259, 1991, *W.H.Tucker*.
SS43 Braunton, 1901 to 1915, five collectors *F.R.Elliston-Wright*, *F.A.Brokenshire et al.* (Flora). Near railway bridge, Instow, SS4730, 1977, *M.Tulloh*.
SS54 Hillsborough, Ilfracombe, 1891, *C.Bailey* (**MANCH**).

● ***Reseda lutea*** L.
Wild Mignonette – **Map 253**
Rare. Native. Well drained grassland and waste places. Never common, most frequently encountered in the Plymouth area. Recent localised records are listed.
Flora p.121, Atlas p.63 (25), 1987 onwards (19).

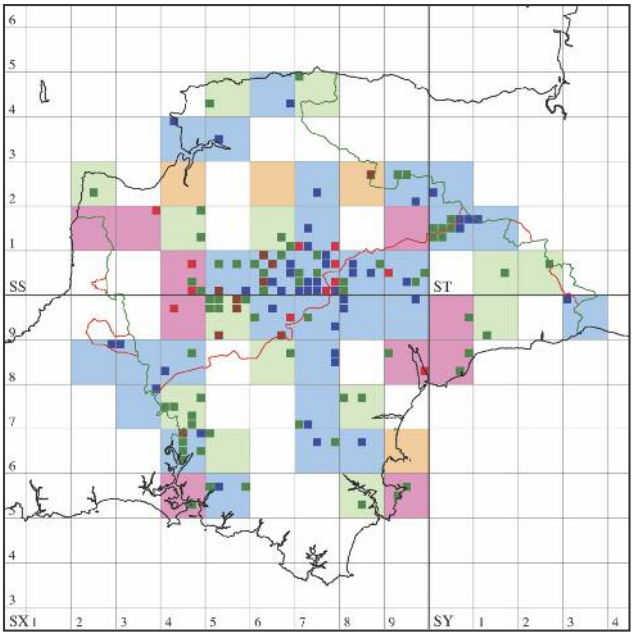
**VC3**

**SX44** Heybrook Bay, tetrad SX4848, 1987, *R.M.H.Hodgson*.
**SX46** South of South Hooe Farm, SX4265, 1997, *N.F.Stewart & R.FitzGerald*.
**SX55** Radford Quarry, SX504530, 1990, *L.J.Margetts*. Billacombe, SX513541, 1993, *DAB*. Disused railway line near Chittleburn Cross, SX5452, 2004, *P.D.Pullen* (DA 2005).
**SX84** Arable weed at Stokely Barton, SX821430, 2006, *N.F.Stewart*.
**SX86** Waste ground at Milber Down, SX881696, 1994, *R.E.N.Smith & C.J.Smith*.
**SX98** By River Exe at Exmouth, SX999817, 2000 and 2004, *R.E.N.Smith & C.J.Smith* (DA 2001).
**SX99** By Exeter Canal, SX9290, 2008, *J.J.Ison*.

**Map 253.** ***Reseda lutea*** **(Wild Mignonette)**




**Map 254.** ***Erysimum cheiranthoides*** **(Treacle-mustard)**




**ST00** Old railway sidings at Cullompton, ST027078, 1996, *M.Thornett*; 1998, *L.J.Margetts*.
**ST10** Awliscombe, ST133014, 2010, *R.E.N.Smith* (DA 2011).

**VC4**
**SS43** Croyde Bay, tetrad SS4238, 1987, *W.H.Tucker*. Braunton Burrows, SS462351, 1987 and 1990, *W.H.Tucker & E.Stenger*.
**SS53** Fremington Quay, SS516333, 1988, *W.H.Tucker & M.Tulloh*.

## Brassicaceae

● ***Erysimum cheiranthoides*** L.
Treacle-mustard – **Map 254**
Occasional. Introduced, an archaeophyte. An arable weed sometimes occurring on waste ground. Its abundance has probably not changed significantly since the Flora.
Flora p.104, Atlas p.52 (75), 1987 onwards (64).

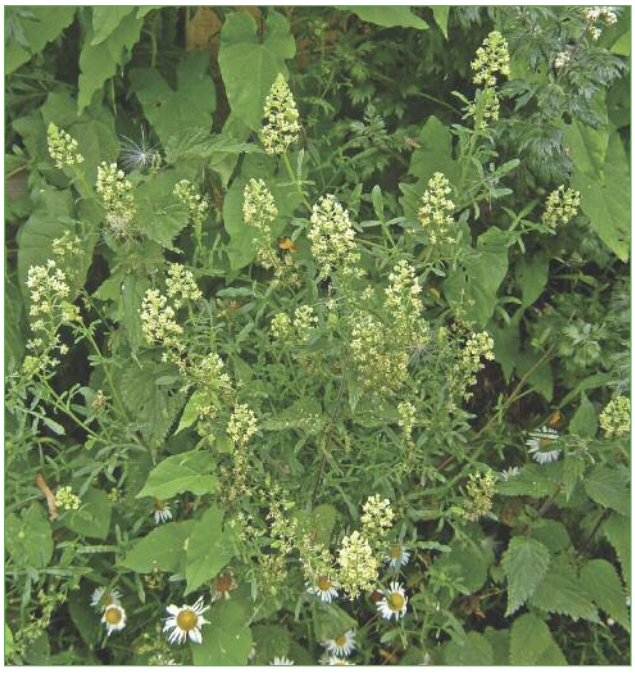
● ***Erysimum cheiri*** (L.) Crantz
Wallflower
Occasional. Introduced, an archaeophyte. A widespread garden escape naturalised occasionally on cliffs and cuttings.
Atlas p.52 (70), 1987 onwards (67).

● ***Erysimum repandum*** L.
Spreading Treacle-mustard
Extinct. Introduced, an archaeophyte; native in southern Europe. Casual in Devon.
Flora p.105, Atlas p.58, 1987 onwards (0).

**VC3**
SX99 By River Exe half a mile above St. Davids, 1876, *E.Parfitt* (Parfitt 1877, **BM**, **TOR**).
SS90 Bickleigh, SS9407, *G.R.A.Watts* (DA 1929).

● ***Arabidopsis thaliana*** (L.) Heynh.
Thale Cress
Frequent. Native. Walls, pavements, in gardens and other places on disturbed soil. Widespread but much less common in North Devon and absent from Dartmoor.
Flora p.103, Atlas p.52 (395), 1987 onwards (488).

● ***Camelina sativa*** (L.) Crantz
Gold-of-pleasure
Very rare. Introduced, an archaeophyte. A casual amongst other crops and now grown for oil seed. Most records may belong here though it is now impossible to tell if some of the other *Camelina* species were involved. All three specimens in **TOR** must be regarded as *sensu lato* (L.J.Margetts).
Flora p.105, Atlas p.58 (0), 1987 onwards (2).



Wild Mignonette *Reseda lutea*

**VC3**
SX45 Fursdon Estate, Eggbuckland, 1860, *T.R.A.Briggs* (Briggs 1860). Near Woodlands, 1861, *T.R.A.Briggs* (Briggs 1880). Plymouth, 1900, *H.J.Riddelsdell* (**BM**).
SX84 Stoke Fleming, 1908, *R.M.Milne* (Flora).
SX87 On rubbish tip at Wolborough, 1938, *T.Stephenson* (Flora, **TOR**).
SX97 Stokeinteignhead, *Mrs. Cartwright* (Flora).
SX98 Exmouth Docks, 1917, *M.Cobbe* (Druce 1918b); 1919, *DA* (Flora); 1935, *A.Crawshaw* (Flora); 1939, *T.Stephenson* (DA 1941, **TOR**).
SX99 Stoke Canon, 1871, *E.Parfitt* (Flora, **TOR**); Exeter 1931, *G.R.A.Watts* (Flora).
**SS70** In game mix on field boundary near Raddon Down Cross, SS792011, 2005, *N.F.Stewart*.

**VC4**
**SX79** Growing as field crop near Spreyton, SX714969, 2001, *N.F.Stewart* (DA 2002).
SS62 Castle Hill, Filleigh, 1918, *E.Fortescue* (Druce 1919).

Also recorded from **VC3**: SX76 (BSBI Atlas).

● ***Camelina microcarpa*** Andrz. ex DC.
Lesser Gold-of-pleasure
Extinct. Introduced, casual; native in southern Europe and beyond. There are no recent records and only one for which there is a herbarium specimen.
Flora p.106 as *C. sylvestris*, Atlas p.58 (0), 1987 onwards (0).

**VC3**
SX45 Amongst *Trifolium incarnatum* in a field near Penny-cross Church, 1871, *T.R.A.Briggs* (Briggs 1880, **BM**).

● ***Neslia paniculata*** (L.) Desf.
Ball Mustard
Extinct. Introduced, casual; native in south and east Europe.
Flora as *Vogelia paniculata* (L.) Hornem. p.118, Atlas p.58, 1987 onwards (0).

**VC3**
SX97 Exmouth, 1917, *A.B.Cobbe* (Druce 1918b).

**VC4**
SX38 Lifton, 1920, *W.Wise* (Druce 1921).
SX53 Fremington, *F.A.Brokenshire* (DA 1912).

● ***Capsella bursa-pastoris*** (L.) Medik.
Shepherd's-purse
Common. Introduced, an archaeophyte. Locally abundant weed of arable fields, gardens and other disturbed soils. Found throughout except on the higher ground of Dartmoor.
Flora p.112, Atlas p.58 (1138), 1987 onwards (964).

● ***Capsella* × *gracilis*** Gren.
*C. bursa-pastoris* × *C. rubella* Reut.
Extinct. *C. rubella* is an introduction from southern Europe. Casual.
1987 onwards (0).

**VC3**
SX87 On wool waste at Bradley Woollen Mills, SX853711, 1957, *M.McCallum Webster* (Lousley 1961, **K**).

● ***Turritis glabra*** L.
Tower Mustard
Extinct. Native in central and eastern England but casual in Devon. Found once in both VC3 and VC4. Not seen for many years.
Flora as *Arabis glabra* (L.) Bernh. p.94, Atlas as *Arabis glabra* (L.) Bernh. p.56, 1987 onwards (0).

**VC3**
SX95 On waste land at Paignton, *H.Roydon* (Flora).

**VC4**
SS53 Railway bank at Fremington, *W.P.Hiern*, ex *Wainwright* (Flora).

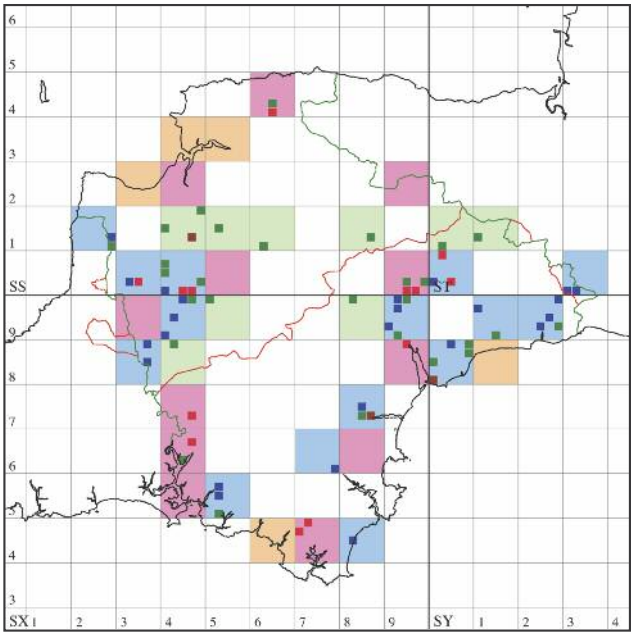
● ***Barbarea vulgaris*** W.T.Aiton
Winter-cress
Frequent. Native. Moist situations by streams, on roadsides and amongst arable crops. It occurs throughout the county but is commonest in the southeast and around Plymouth.
Flora p.92, Atlas p.53 (261), 1987 onwards (169).

● ***Barbarea intermedia*** Boreau
Medium-flowered Winter-cress
Frequent. Introduced, a neophyte; native in northwest Africa and western Europe. Widespread as an arable weed and on waste ground. First recorded in 1863, it was recorded for 14 parishes in the Flora and has spread gradually

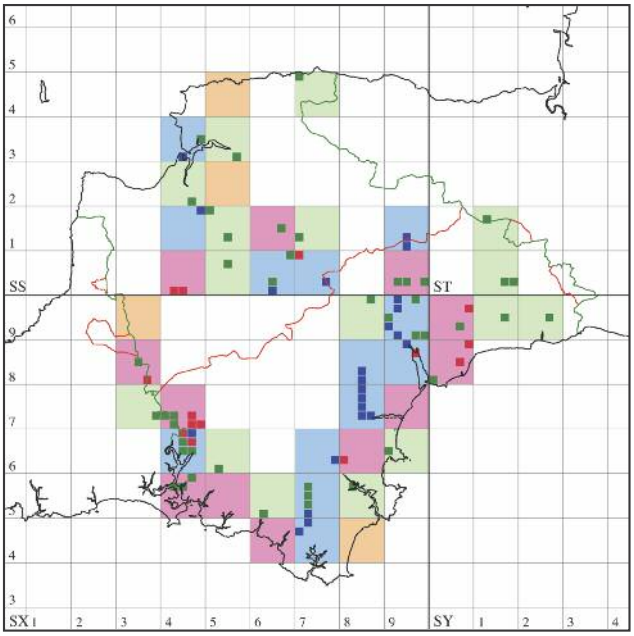
Wallflower *Erysimum cheiri*, p.351

Thale Cress *Arabidopsis thaliana*, p.351

**Map 255.** ***Rorippa palustris*** **(Marsh Yellow-cress)**




**Map 256.** ***Rorippa sylvestris*** **(Creeping Yellow-cress)**




throughout the county, overtaking *B. verna* in frequency. Commonest in central Devon and around Plymouth where it was most commonly recorded by 1939 (Flora).
Flora p.93, Atlas p.54 (124), 1987 onwards (151).

● ***Barbarea verna*** (Mill.) Asch.
American Winter-cress
Frequent. Introduced, a neophyte; native in southern Europe. Found less often than either *B. vulgaris* or *B. intermedia*, it occurs on waste ground and as an arable weed throughout the county.
Flora p.93, Atlas p.53 (51), 1987 onwards (125).

● ***Rorippa islandica*** (Oeder ex Gunnerus) Borbás
Northern Yellow-cress
Very rare. Nationally Scarce. Native. Not distinguished from *R. palustris* until 1968. It has a predominately western distribution in the British Isles. There are five reliable records though it seems likely that plants recorded from other sites in the Plymouth area may be this species rather than *R. palustris*. The Flora and Atlas records are all *R. palustris*.
1987 onwards (5).

**VC3**

**SX55** Saltram, tetrad SX5054, 1988, *R.M.H.Hodgson*; in cobbles at entrance to café at Saltram House, SX521555, 2002, *P.R.Green*. One plant on steps by the River Plym north of Marsh Mills, 2013, *P.D.Pullen* det. *B.E.Jonsell* (DA 2014). Up to 30 plants in old quarry west of Plym Bridge, SX521587, 2006 and 2013, *P.D.Pullen* (DA 2014).

**VC4**

**SS21** Upper Tamar Lake, SS2812, 2003, *DAB* det. *T.C.G.Rich*.

● ***Rorippa palustris*** (L.) Besser
Marsh Yellow-cress – **Map 255**
Occasional. Native. An annual usually found on moist alluvial soils by streams and rivers, less often in dry locations. Particularly associated with lower reaches of the larger rivers.
Flora as *R. islandica* (Oeder) Schinz et Thell. p.91, Atlas as *R. islandica* (Oeder) Borbás p.54 (28), 1987 onwards (43).

● ***Rorippa sylvestris*** (L.) Besser
Creeping Yellow-cress – **Map 256**
Occasional. Native. Perennial plant of disturbed ground by rivers and streams, particularly beside the lower reaches of the larger rivers. More rarely in dry situations such as roadside banks.
Flora p.91, Atlas p.54 (53), 1987 onwards (43).

Winter Cress *Barbarea vulgaris*

● ***Rorippa austriaca*** (L.) (Crantz) Besser
Austrian Yellow-cress
Very rare. Native. Recorded once in North Devon.
1987 onwards (1).

**VC4**
**SS61** By River Taw near King's Nympton Station, SS6616, 1996, *E.Stenger* det. *W.H.Tucker* (DA 1997).

● ***Nasturtium officinale*** W.T.Aiton
Water-cress
Common. Native. Springs, ditches, streams and riversides. Widely distributed throughout the county but absent from upland areas of Dartmoor. Most Atlas and recent records probably belong here, though the majority of recent records were reported as *N. officinale* agg, which includes *N. microphyllum*. Both segregates are under-recorded at the species level.
Flora as *N. officinale* R.Br. p.90, Atlas as *N. officinale* R.Br. p.54 (806), 1987 onwards (403).

● ***Nasturtium* × *sterile*** (Airy Shaw) Oefelein
*N. officinale* × *R. microphyllum*
Rare. Native. May occur with parents or in the absence of both. The most widely grown plant commercially.
Atlas as *Nasturtium* × *sterilis* (Airy Shaw) nom. prov. p.55 (4), 1987 onwards (11).

**VC3**
**SX57** In a brook near Bedford Bridge, SX5070, 1997, *L.J.Margetts* (DA 1998).
**SX58** Boggy area near Hill Bridge, SX528805, 1995, *N.F.Stewart*.
SX74 Tetrad SX7648, 1954, *anon.* (Atlas).
SX98 Tetrad SX9892, 1978, *J.M.Heap* (Atlas).
**SY09** Abundant in stream at Escot, SY0897, 1997, *L.J.Margetts & L.M.Spalton* (DA 1998).

**VC4**
SS14 Lundy, 1964, *J.Rogerson* (BSBI Atlas).
SS22 Tetrad SS2226, 1971, *W.H.Tucker*.
SS40 Tetrad SS4800, 1971, *W.H.Tucker*.
SS53 Marwood, 1892, *W.H.Painter* det. *H.W.Howard & A.G.Lyon* (Howard & Lyon 1950, **BM**).

Northern Yellow-cress ***Rorippa islandica***, p.353

**SS73** Tetrad SS7030, 1987, *W.H.Tucker*.
SS74 River Heddon between Hunter's Inn and Heddon's Mouth, 1950, *C.C.Townsend* (Wallace 1952).

Also recorded from **VC3**: **SX47**, **SX98**, **SS20**, **ST01** and **VC4**: **SX49**, **SX69**, **SS31**, SS53, SS64 (BSBI Atlas).

● ***Nasturtium microphyllum*** (Boenn.) Rchb.
Narrow-fruited Water-cress
Rare. Native. In similar places to *Nasturtium officinale* but extends into more acidic waters.
Flora as *Nasturtium officinale* R.Br. var. *microphyllum* Boenn. p.91, Atlas p.54 (18), 1987 onwards (18).

**VC3**
**SX55** Tetrad SX5054, 1974, *J.S.Rees* (Atlas). Radford Quarry, SX5053, 1990, *L.J.Margetts*.
SX65 Tetrad SX6056, 1974, *J.S.Rees* (Atlas).
**SX68** On a damp track at Wonson, SX674896, 1994, *L.J.Margetts & L.M.Spalton* (DA 1998).
SX74 Near East Allington, tetrad SX7648, 1954, *S.M.Walters* (BSBI Atlas). Tetrad SX7848, 1973, *B.Waterhouse & G.Waterhouse* (Atlas).
**SX75** Wet field corner at West Leigh, SX752577, *L.J.Margetts & L.M.Spalton* (DA 1998).
SS78 Manaton (Flora).
SX84 Near Slapton Bridge, SX8244, *R.Rose* (DA 1960). Tetrads SX8042, SX8044, SX8242 and SX8244, 1969, *B.Brookes & A.Burns* (Atlas).
SX86 Kingskerswell, *G.T.Fraser* (Flora).
SX97 Combeinteignhead, *G.T.Fraser* (Flora, **TOR**). Dawlish, *G.T.Fraser* (Flora, **TOR**).
**SX98** Field flush near Kenn, SX9285, 1996, *L.J.Margetts & L.M.Spalton* (DA 1997). By Exeter Canal at Countess Wear, SX939895, 1996, *L.J.Margetts* (DA 1997).
SY08 River Otter, Otterton, 1881, *W.Fawcett* det. *H.W.Howard & A.G.Lyon* 1950, **BM**). SY0985, 1957, *anon.* (Atlas).
**SY29** By River Axe, SX2999, 2004, *N.F.Stewart*; SY296993, 2013, *R.E.N.Smith* (**RENS**).
**ST11** Bolham Water, ST1611, 1995, *L.J.Margetts & L.M.Spalton* (DA 1996, **LJM**).
**ST30** By River Axe, SX3100, 2004, *N.F.Stewart*.

**VC4**
**SX59** Near aplite quarry at Meldon, SX5692, 2011, *N.F.Stewart & R.E.N.Smith*.
**SX69** By the Moor Brook near Lower Halstock, SX600937, 1995, *N.F.Stewart*.
**SX79** Stream near Colebrook, SX7599, 1995, *L.J.Margetts & L.M.Spalton* (DA 1996).
SS14 Lundy, 1961, *anon.* (BSBI Atlas).
SS32 Clovelly, 1955, *R.M.Payne* (BSBI Atlas).
SS40 Tetrad SS4008, 1972, *W.H.Tucker* (Atlas).
**SS43** SS4733, 1955, *A.J.C.Beddow* (Atlas). Gallowell, tetrad SS4632, 1987, *W.H.Tucker*.
**SS44** Croyde, SS426402, 1950 and 1952, *T.G.Collett* (BSBI Atlas). Woolacombe, SS460431, 1999, *W.H.Tucker*.
SS53 Marwood, 1892, *W.H.Painter* (BSBI Atlas).
SS54 Tetrads SS5044, SS5046, SS5456, SS5646 and SS5842, 1974 and 1975, *J.S.Rees* (Atlas).

Also recorded from **VC3**: **SX47**, **SX54**, **SX73**, **SX99**, **SS90** and **VC4**: SX48, **SS32** (BSBI Atlas).

● ***Armoracia rusticana*** P.Gaertn., B.Mey. & Scherb.
Horse-radish
Occasional. Introduced, an archaeophyte. A sterile relic of cultivation spreading by root fragmentation. Widespread on roadsides and waste places. Under-recorded at the tetrad level.
Atlas p.57 (96), 1987 onwards (65).

● ***Cardamine bulbifera*** (L.) Crantz
Coralroot
Very rare. Native in southeast England, introduced in Devon. Usually naturalised in and around large gardens. Occasionally in the wild.
Flora p.96, Atlas p.55 (6), 1987 onwards (8).

**VC3**
SX46 Bere Ferrers, *C.W.Bracken* (DA 1916).
SX55 Plympton and Plymstock, 1908 and 1913, *H.W.Smith* (Flora).
SX65 Billacombe, Harford, 1915, *H.Smith* (Druce 1916b).
**SX67** A few plants on the roadside near Hexworthy Bridge, SX657727, 2010, *E.Pratt* & *R.E.N.Smith* (DA 2011).
**SX76** Tetrad SX7862, 1979, *M.F.Spooner* (Atlas); Dartington Hall, Totnes, SX7962, 1989, *C.J.Smith*; 1990, *R.G.Laidlaw* (DA 1991).
SX86 Introduced and spreading, Torbryan plantation, *A.M.Ogilvie* (DA 1930, **TOR**).
SX99 SX9193, 1980, *M.A.Turner* (Atlas).
**SY09** Tetrad SY0690, 1973, *M.Parkinson* (Atlas); 1982, *J.Webster* (Atlas). Tetrad SY0692, 1973, *G.H.Gush* (Atlas); Higher Metcombe, near Venn Ottery, SY068922, 1984, *W.H.Tucker* (BSBI Atlas); 1990, *A.J.Showler* (BSBI Atlas).
**SY39** Whitlands Cliff near Lyme Regis, 1931, *J.N.Frankland* (**LIV**).
**ST01** Yodercott House, Uffculme, 1977, *R.G.Laidlaw & G.Watkinson* (BSBI Atlas); ST074126, 1988, *A.J.Showler* (BSBI Atlas). Craddock, near Uffculme, ST0812, 1990, *R.G.Laidlaw, L.J.Margetts & W.H.Tucker* (DA 1991).

**VC4**
**SS91** Tetrad SS9616, 1977, *P.Touch* (Atlas). Knightshayes Court, SS960152, 1989, *A.J.Showler* (BSBI Atlas), 1990, *R.G.Laidlaw* (DA 1991).

**VC9**
**SY39** Spreading along verge outside garden, Woodhouse Road, SY337982, 2012, *R.E.N.Smith*.

● ***Cardamine trifolia*** L.
Trefoil Cress
Very rare. Introduced, a neophyte; native in central Europe. Naturalised in a few places.
Flora p.96, Atlas p.55, 1987 onwards (1).

**VC3**
SX85 Naturalised in a wood at Norton Park, near Dartmouth, 1907, *R.M.Milne* (Flora, **K**); *Mrs. Baker* (DA 1909); 1936, *Sutton & Sons* (BSBI Atlas, **K**). Townstal Wood, 1962, *G.C.Walker* (BSBI Atlas).

**VC4**
**SS64** Trentishoe churchyard, SS646486, 1945, *W.Howard* (Wilmott 1947), then on many occasions to 1993, *W.H.Tucker* (**E**, **K**, **RNG**, **NMW**).

● ***Cardamine raphanifolia*** Pourr.
Greater Cuckooflower
Very rare. Introduced, a neophyte; native in southern Europe. Shaded places by streams and rivers.
1987 onwards (3).

**VC3**
**SY09** By stream near Southerton, SY077905, 1955, *D.G.Steele-Perkins* (DA 1956 as *C. latifolia*, **K**, **LIV**); 1968, *T.B.Ryves* (BSBI Atlas); 1983, *W.H.Tucker*; 1986, *L.J.Margetts & J.A.Philpott*; 2005, *N.F.Stewart*.

**VC9**
**ST30** Three plants in stream near Hook, ST308054, 1996, *I.P.Green* (DA 1998); abundant in stream near Hook ST311060, 2011, *M.Waters* (DA 2012).

● ***Cardamine pratensis*** L.
Cuckooflower
Common. Native. Moist unimproved and semi-improved grasslands. Widespread but absent from the high ground of Dartmoor. The *flore pleno* form occurs occasionally and is locally frequent in the fields southwest of Bow.
Flora p.94, Atlas p.55 (1143), 1987 onwards (1003).

● ***Cardamine impatiens*** L. – see panel overleaf

● ***Cardamine flexuosa*** With.
Wavy Bitter-cress
Common. Native. Commonest on moist shaded soils in woodlands and by streams. Absent only from the higher ground on Dartmoor but reaching 559 metres on Bridestowe and Sourton Commons (DA 1953).
Flora p.95, Atlas p.55 (1332), 1987 onwards (1356).

**Narrow-fruited Water-cress *Nasturtium microphyllum***

● ***Cardamine impatiens*** L.
Narrow-leaved Bitter-cress
Very rare. Nationally Scarce. Near Threatened on the British Red List. Native. Usually restricted to moist limestone soils in woodland. It was regularly recorded on the metamorphic aureole on the edge of Dartmoor in the vicinity of the River Teign, between Ashton and Dunsford from the 19th century to 1936 (Flora), after which time it appeared to be lost. It reappeared in the same area, in woodland south of Canonteign, in 2012, following heavy disturbance. The records from the Bovey stream in the parish of Manaton should always have been suspect as the stream runs over granite. More recently specimens from this area at **RAMM**, collected by C.E.Larter in 1918 and 1920, were redetermined as "Not this" by J.H.Stock in 1996. Records from other sites in South Devon are problematic. The plant from Killerton Park at **ABS** is correctly identified but remote from all other records except one from Cowley for which there is no voucher. There also appears to be some confusion attached to Larter's 1899 record from Torquay which is not mentioned in her Flora of Torquay (Larter 1900), the specimen said to be in **RAMM** has not been found and in a letter written to W.P.Hiern in 1923, who was responsible for listing the record Larter writes "In your contribution towards the Bot. Com. D.A., you enter it under Bot Dist 6 for 'St.Marychurch' but here I have not seen it". A record listed for Stoke Fleming (DA 1913) seems equally unlikely. There are a number of mid-19th century records from North Devon but these were questioned not long afterwards and have never been accepted.
Flora p.95, Atlas p.56 (0), 1987 onwards (1).

**VC3**

**SX88** Teign Valley. Teign Lane, Trusham, *T.R.A.Briggs* (Rogers 1878); Teign Lane, along the dry bushy bank for a quarter of a mile or more, 1876, *T.R.A.Briggs* (Rogers 1878). "Long known by the Rev. H.Roberts at Ashton on a lane parallel to Teign Lane but from two to three miles north of it (Rogers 1878). "In the Teign Valley, Ashton, on a bank of the new railway cutting; a few very luxuriant plants. Also, in considerable quantity, on banks by the roadside in the parish of Christow, about a mile farther down the river, on the opposite side" (Rogers 1880). "Christow; Hennock; Ashton; Trusham; roadside banks. These four stations - the only South Devon ones yet recorded - are all within half a mile of the river (two on each side of it), and could be included within an area of about two miles square. I expect it will yet be found elsewhere up or down the river" (Rogers 1882a, **MANCH**). Ashton, 1920, *F.S.Joint* (**RAMM**). Ashton, "wood beyond station going towards Trusham", in great quantity, 1923, *C.E.Larter* conf. *J.H.Stock* (**RAMM**). Ashton, near the river, 1936, *A.Crawshaw* (**TOR**). Dunsford, 1933, *A.F.Jennings* (Flora). Ashton, 1945, *Mrs. Adamson* (**TOR**). Several plants on recently disturbed ground above Hyner, SX833821, *R.E.N.Smith*, 2012 and 2014 (DA 2013, **RENS**).

SX99 Cowley, near Exeter, SX9095, 1923, *R.Waterfield* (DA 1929).

SS90 Kellaton (Killerton) Park, Exeter, 1933, *anon.* (**ABS**).

● ***Cardamine hirsuta*** L.
Hairy Bitter-cress
Common. Native. Bare ground and disturbed soils throughout the county, but absent from the high ground on Dartmoor.
Flora p.95, Atlas p.55 (1140), 1987 onwards (1093).

● ***Cardamine corymbosa*** Hook. f.
New Zealand Bitter-cress
Very rare. Introduced, a neophyte; from New Zealand. A recent colonist via the horticultural trade.
1987 onwards (6).

**VC3**

**SX55** Abundant in cobbles by the stable block at Saltram House, SX521555, 2003, *P.R.Green*; 2006, *R.E.N.Smith & C.J.Smith*. A pavement weed in several places in Yealmpstone Drive, Plympton, 2006, SX557555, *P.D.Pullen*.

**SX87** As a weed in a garden pot and subsequently in the open ground, Highweek, SX846719, 2001 to 2013, *R.E.N.Smith & C.J.Smith* (DA 2002).

**VC4**

**SS51** Established weed in garden terrace, R.H.S. Rosemoor, Torrington, SS501181, 2007, *T.C.G.Rich*.

**SS91** Established in pots and open ground at Secret Seeds Nursery, SS953198, 2005, *P.R.Green*.

● ***Lepidium sativum*** L.
Garden Cress
Very rare. Introduced, casual; native in Egypt and Asia. On waste land.
Flora p.114, Atlas p.59 (0), 1987 onwards (4).

**VC3**
SX45 Occasionally seen about gardens, Plymouth, *T.R.A.Briggs* (Briggs 1880).
**SX55** Boringdon Hill, SX530580, 2006, *P.D.Pullen*.
**SX87** Lane by the mill above Chudleigh Rocks, 1880 and 1881, *W.M.Rogers* (Rogers 1882). Newton Abbot, SX857713, 1995, *R.E.N.Smith* (**RENS**).
SX96 Torquay (Flora, **TOR**).
**SX98** Cycleway near Lympstone, SX999821, 2008, *A.Newton* det. *T.C.G.Rich* (DA 2009).
SX99 Exeter (Flora).
SS90 Bickleigh (Flora).
ST00 Cullompton (Flora).

**VC4**
**SX69** Several plants from contaminated seed, North Wyke, SX653981, 2000, *R.E.N.Smith* det. *T.C.G.Rich*.
SS53 Pilton and Bishop's Tawton (Flora). Barnstaple, *R.Taylor* (DA 1933).

● ***Lepidium campestre*** (L.) W.T.Aiton
Field Pepperwort – **Map 257**
Very rare. Introduced, an archaeophyte. A weed of both fields and roadsides. Much less commonly encountered in recent years. Recent localised records are listed.
Flora p.114, Atlas p.59 (43), 1987 onwards (7).

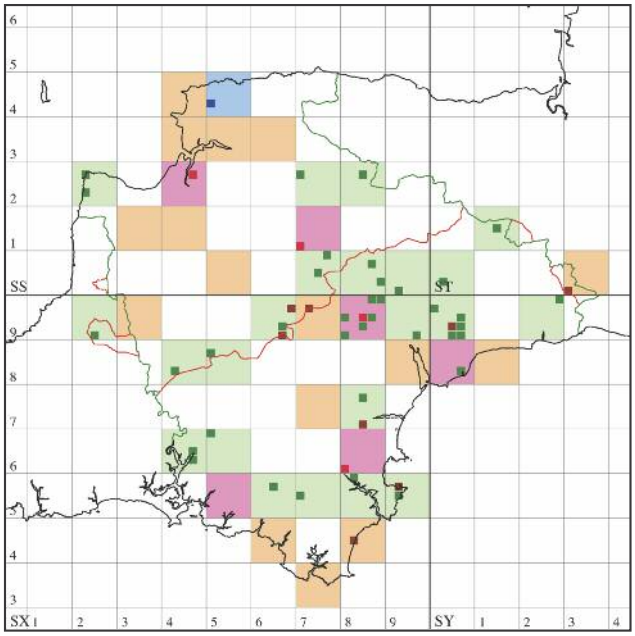
**VC3**
**SX86** Roadside north of Totnes, SX8061, 1996, *R.E.N.Smith*.
**SX89** Heath Cross, Whitestone, SX8494, 1987, *B.P.Thurlow*.

**VC4**
**SS42** Westleigh, SS460278, 1988, *W.H.Tucker*.
**SS54** West Down, tetrad SS5042, 2011, *M.Putnam & A.Holwill*.
**SS71** Arable weed at Tonyfield Farm, SS7010, and Toatley Farm, SS7110, 1987, *B.P.Thurlow*.

● ***Lepidium heterophyllum*** Benth.
Smith's Pepperwort – **Map 258** (overleaf)
Occasional. Native. Local in grassy places throughout the county but avoiding the high ground and calcareous soils.
Flora as *L. smithii* Hook. p.115, Atlas p.59 (173), 1987 onwards (99).

● ***Lepidium virginicum*** L.
Least Pepperwort
Extinct. Introduced, casual; native in North America.
Casual weed of waste ground. *L. densiflorum* Schrad., considered by some authorites to be a separate species, is included here.
Flora p.116, Atlas p.59 (0), 1987 onwards (0).

**Map 257. *Lepidium campestre* (Field Pepperwort)**



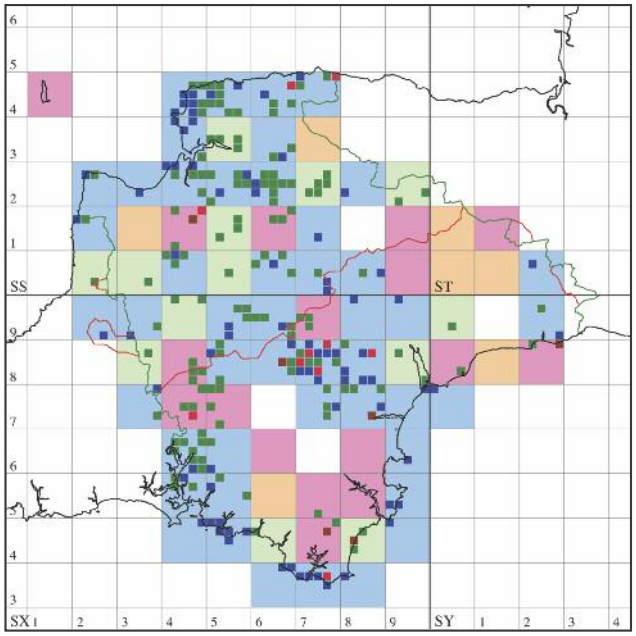

**VC3**
SX87 Canal, Newton Abbot, 1923, *C.E.Reynolds* (Druce 1924).
SX96 Torquay, 1909, *C.E.Larter* (Druce 1919).
SX97 Teignmouth, *G.R.A.Watts* (DA 1931).
SX98 Newport, Topsham, *W.S.M.D'Urban* (Greig 1957, **RAMM**).
SX99 Exeter, 1917, *A.B.Cobbe* (Druce 1918b). Ide, 1920, *E.S.Todd* (Druce 1921).

● ***Lepidium bonariense*** L.
Argentine Pepperwort
Extinct. Introduced, casual; native in South America.
1987 onwards (0).

**VC3**
SS90 By the river at Bickleigh, 1958, *E.D.Tallant* (DA 1959, **LIV**).

**New Zealand Bitter-cress *Cardamine corymbosa***

**Map 258. *Lepidium heterophyllum* (Smith's Pepperwort)**




● ***Lepidium ruderale*** L.
Narrow-leaved Pepperwort
Very rare. Introduced, an archaeophyte. A weed of waste places. Recorded in 19 parishes in the Flora but only once in the Atlas recording period. It has been found several times in recent years and many of these are from the verges of major roads.
Flora p.114, Atlas p.59 (1), 1987 onwards (9).

**VC3**

**SX45** On ballast at Cattedown, 1875, *T.R.A.Briggs* (Briggs 1880). Ernesettle, 1986, *E.Griffiths* (DA 1987). Millbay Docks, SX470539, 2006 and 2013, *P.D.Pullen*.
SX55 Two sites on or by quays by the quarries between Oreston and Pomphlett, 1879, *T.R.A.Briggs* (Briggs 1880). Unlocalised post-1987 hectad record (BSBI Atlas).
SX76 Staverton (Flora).
**SX87** Stover Canal, *R.W.Tregale*, (Flora, **TOR**). Newton Abbot, *C.Waterfall* (Flora); *E.D.Morgan* (DA 1930); *G.T.Fraser* (Flora); Penn Inn, Newton Abbot, SX871707, 2007, *N.F.Stewart*. Clay quay by River Teign, Wolborough, *G.T.Fraser* (DA 1941, **TOR**).
SX95 Brixham Station, 1932, *F.A.Bellamy* (Flora).
SX97 Teignmouth, 1909, *A.H.Wolley-Dod & E.H.Marshall* (Wolley-Dod 1910); *E.D.Morgan* (DA 1930); 1935, *A.Crawshaw* (Flora).
SX98 Newport, Topsham, *W.S.M.D'Urban* (Greig 1957, **RAMM**).
**SX99** Exeter (Turner & Dillwyn 1805). St. Thomas, Exeter, SX915910, 2008, *J.J.Ison*. Exeter, SX9292, 2007, *K.Rylands*. Sandy Gate roundabout, Exeter, SX966913, 2007, *N.F.Stewart*.
**SY08** Exmouth, 1922, *W.S.M.D'Urban* (Flora, **RAMM**); *W.D.Miller* (DA 1924); Exmouth Station, SY000811, 2007, *N.F.Stewart*.
SY18 Sidmouth, 1904 (Flora, **RAMM**).
**ST01** M5 interchange near Sampford Peverell, ST048140, 1996, *T.C.G.Rich* (DA 1997); 2005, *G.Kitchener*.

Hoary Cress ***Lepidium draba***

**VC4**
SS40 Black Torrington, *W.P.Hiern* (DA 1914).
SS41 Torrington (Flora).
SS44 Mortehoe, *Mrs. Ludow* (Ravenshaw 1860).
SS50 Exbourne, *A.C.Morris* (DA 1914, DA 1923); *H.H.Harvey* (Flora).
**SS53** Fremington Quay, SS515333, 1965, 1973 and 1988, *M.Tulloh* (DA 1966); 1999, *W.H.Tucker & R.E.N.Smith*. Pilton (Flora, **RAMM**). Barnstaple (Flora, **RAMM**).
SS54 Ilfracombe (Flora, **RAMM**).
SS60 Chulmleigh, 1908, *R.Taylor* (Flora, **RAMM**).
SS82 West Anstey, before 1894, *E.V.Freeman* (DA 1927); tetrad SS8626, 1973, *A.Bonham-Carter* (Atlas).

● ***Lepidium divaricatum*** Aiton
African Pepperwort
Extinct. Introduced, casual; native in South Africa.
Originally published as *Lepidium hyssopifolium* Desv.
1987 onwards (0).

**VC3**
SX87 On wool waste at Bradley Woollen Mills, SX853711, 1957, *M.McCallum Webster* (McCallum Webster 1959).

● ***Lepidium perfoliatum*** L.
Perfoliate Pepperwort
Extinct. Introduced, casual; native in Europe.
Flora p.116, Atlas, p.59 (0), 1987 onwards (0).

**VC3**
SX45 Cotesdown (Cattedown) quarries, 1895, *G.C.Druce* (Druce 1895).
SX97 Exmouth, 1920, *Mrs. Wedgewood* (Druce 1921).

**VC4**
SS42 Bideford area, *H.Saunders* (Saunders 1906).
SS62 Castle Hill, Filleigh, 1918, *E.Fortescue* (Druce 1919).

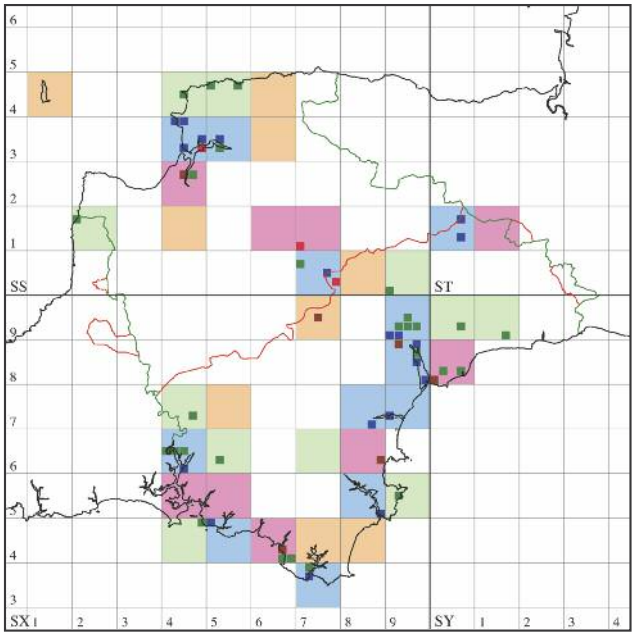
● ***Lepidium latifolium*** L.
Dittander
Very rare. Native in eastern England and by the Severn estuary, but introduced in Devon. There is one recent record.
Flora p.114, Atlas p.59 (0), 1987 onwards (1).

**VC3**
SX45 By the river near Cattedown quarries "probably brought in ballast" SX4953, *J.Jacob* (Jacob 1835).
SX73 Salcombe, 1939, *R.Waterfield* (Flora).
SX99 Near Exeter (Gerard 1633).

**VC4**
**SS43** A single plant on Instow Dunes, SS474314, *DAB* det. *R.M.H.Hodgson*, 2008 (DA 2009).

● ***Lepidium graminifolium*** L.
Tall Pepperwort
Extinct. Introduced, casual; native in southern Europe.
1987 onwards (0).

**Map 259. *Lepidium draba* (Hoary Cress)**




**VC3**
SX85 Dartmouth Marina, SX8751, 1976, *R.Riddell* det. *R.B.Ivimey-Cook* (DA 1978).

● ***Lepidium draba*** L.
Hoary Cress – **Map 259**
Rare. Introduced, a neophyte; native in southern Europe. A weed of waste places and arable land. Most records are in the vicinity of estuaries. First recorded at Horrabridge in 1865 (Briggs 1865) but not subsequently until 1903 at Pilton, near Barnstaple. It was then recorded more frequently and was reported from 20 parishes in the Flora. Unlike further east in Britain it has remained a rare weed in Devon and shows no sign of increasing. Although it may occur as a casual at some sites it has persisted at or close to other sites where it was first recorded in the 1920s and 1930s. Recent localised records are listed.
Flora p.116, Atlas as *Cardaria draba* (L.) Desv. p.59 (35), 1987 onwards (28).

**VC3**
**SX46** South of Ernesettle Sewage Works, SX4460, 2007, *P.D.Pullen*.
**SX54** Wembury Point, SX5048, 2006, *P.D.Pullen*.
**SX73** Sunny Cove, East Portlemouth, SX738379, 1993, *R.E.N.Smith*; 2006, *R.M.H.Hodgson*.
**SX85** Waterhead Creek, Kingswear, SX8851, 2004, *J.J.Ison*.
**SX87** Town Quay, Newton Abbot, SX869716, 1994, *R.E.N.Smith*. By River Lemon, Newton Abbot, SX866717, 1995, *R.E.N.Smith*. Aller Brook, Newton Abbot, SX873716, 1994 and 2004, *R.E.N.Smith & C.J.Smith*.
**SX97** By the Archbrook Bridge, Combeinteignhead, SX909720, 2012, *R.E.N.Smith*.
**SX98** The Point, Exmouth, SX9981, 2008, *J.J.Ison*. Exe estuary, SX963858, 2004 and 2011, *J.J.Ison*. Topsham, SX9688, 2004, *J.J.Ison*.
**SX99** St. Thomas, Exeter, SX9191, 2008, *J.J.Ison*. Marsh Barton Industrial Estate, SX919914 and Riverside Valley Park, Exeter, SX925914, 2009, *J.J.Ison*.

**SS70** Newbuildings, tetrad SS7802, 1987, *B.P.Thurlow*.
**ST01** Bank of River Culm near Coldharbour Mill, ST063120, 2011, *R.E.N.Smith & C.J.Smith*.

**VC4**
**SS43** Lower Yelland, SS4832, 1987, *W.H.Tucker*. Velator Quay, SS484354, 2008, *NDBG*. Croyde Bay, SS4339, 1987, *W.H.Tucker*; 2011, *M.Putnam & A.Holwill*. Croyde, tetrad SS4438, 2011, *M.Putnam & A.Holwill*.
**SS53** Ashford, SS530351, 2004, *N.F.Stewart*.
**SS70** Rape fields northeast of Gollands, SS773053 and SS773052, 2008, *N.F.Stewart*.
**SS71** Arable weed at Tonyfield Farm, SS7010, and Toatley Farm, SS7110, 1987, *B.P.Thurlow*.
**ST01** Westleigh Quarry, ST062173, 1996, *B.Benfield*; 2004, *J.J.Ison & L.J.Margetts*.

● ***Lepidium coronopus*** (L.) Al-Shehbaz
Swine-cress
Frequent. Introduced, an archaeophyte. Widespread weed of crops, gateways and waste places in South Devon. It is much less common in the north of the county. Absent from Dartmoor.
Flora as *Carara coronopus* (L.) Britton. p.13, Atlas as *Coronopus squamatus* (Forssk.) Asch. p.60 (129), 1987 onwards (294).

● ***Lepidium didymum*** L.
Lesser Swine-cress
Common. Introduced, a neophyte; native in South America. Has a similar distribution pattern to that of *L. coronopus* but is much more common. Both species are found in similar situations, often together.
Flora as *Carara didyma* (L.) Britton. p.13, Atlas as *Coronopus didymus* (L.) Sm. p.60 (667), 1987 onwards (699).

● ***Lunaria annua*** L.
Honesty
Frequent. Introduced, a neophyte; native in southeastern Europe. Widespread and increasing especially in South Devon, in hedgerows and waste places, in and around villages and more isolated habitations.
Flora p.96, Atlas p.56 (47), 1987 onwards (277).

● ***Alyssum alyssoides*** (L.) L.
Small Alison
Extinct. Introduced, a neophyte; native in Europe. Casual of fields and waste places. There are no recent records.
Flora p.97, Atlas p.56 (3), 1987 onwards (0).

**VC3**
SX58 Lydford, at 320 metres (Flora).
SX97 Sandy, cultivated field near Dawlish, 1845, *R.C.R.Jordan's brother* (Jordan 1845).
SS90 Bickleigh, *G.R.A.Watts* (DA 1927).

**VC4**
SS30 Tetrads SS3004 and SS3006, 1973, *M.F.Spooner* (Atlas).
SS43 In a field near the sea, Georgeham, 1890 (Flora, **RAMM**); tetrad SS4339, 1950, *A.J.C.Beddow* (Atlas).
SS53 Field at Whitemore, Bishop's Tawton, 1914, *R.Taylor* (DA 1915).
SS63 In a cultivated field at 250 metres, Charles (Flora).
SS70 1956, *A.J.C.Beddow* (BSBI Atlas).

● ***Aurinia saxatilis*** (L.) Desv.
Golden Alison
Rare. Introduced, a neophyte; native in central and southeast Europe. A garden escape recorded from 10 hectads in South Devon between 1987 and 2000 (BSBI Atlas). In North Devon there is a single record from Warren Lane, Great Torrington, SS4818, 1985, *W.H.Tucker*.
Atlas as *Alyssum saxatile* L. p.56 (0), 1987 onwards (12).

● ***Berteroa incana*** (L.) DC.
Hoary Alison
Extinct. Introduced, a neophyte; native in Europe.
Flora as *Alyssum incanum* L. p.96. Atlas p.56 (0), 1987 onwards (0).

**VC4**
SS53 Pilton, 1888, *W.P.Hiern* (Flora). Tucking mill waste, Barnstaple (Flora, **LIV**).
SS72 South Molton, *H.Saunders* (Saunders 1894).

Also recorded from **VC3**: SX86 (BSBI Atlas).

● ***Lobularia maritima*** (L.) Desv.
Sweet Alison
Occasional. Introduced, a neophyte; native in southern Europe. First noticed in 1806 at Budleigh Salterton (Flora) it is now widespread in most of the county as a garden escape, often on walls, as a pavement weed or in disturbed stony/gravelly places in built up areas. Commonest near the coast.
Flora p.97, Atlas p.56 (20), 1987 onwards (65).

**Hairy Rock-cress *Arabis hirsuta***

● ***Descurainia sophia*** (L.) Webb ex Prantl
Flixweed
Very rare. Introduced, an archaeophyte. Casual in Devon.
Flora as *Sisymbrium sophia* L. p.104, Atlas p.51 (0), 1987 onwards (1).

**VC3**

SX46 Near Denham Bridge, Bere Alston (Jacob 1836) but not confirmed (Briggs 1880).
SX97 Waste places, Teignmouth (Jones 1820). Dawlish 1836, *W.R.Crotch* (**BON**).
SY08 Exmouth, 1946, *J.J.Stuart-Edwards* (Wallace 1948).
**SY29** Arable field south of Nunford Dairy, Whitford, SY2594, 1990, *L.M.Spalton* (DA 1991, **RENS**).

**VC4**

SS32 Clovelly, *D.Hilton* conf. *H.H.Harvey* (DA 1936).
SS43 Braunton, 1899, *C.E.Larter*, *F.R.Elliston Wright* (Flora).
SS54 Ilfracombe, *T.F.Ravenshaw* (quoted by Keys (1866) and *W.P.Hiern* (Flora) for about 1860 but not in any known Ravenshaw reference).

Also recorded from **VC3**: **SX76**, SY09 (BSBI Atlas).

● ***Arabis caucasica*** Willd. ex Schltdl.
Garden Arabis
Rare. Introduced, a neophyte; native in southern Europe. A garden escape recorded in 11 hectads in VC3 and two in VC4 (BSBI Atlas).
Flora as *Arabis albida* Stev. p.94, Atlas p.56 (0), 1987 onwards (13).

● ***Arabis hirsuta*** (L.) Scop.
Hairy Rock-cress
Rare. Native. Restricted to base-rich substrates, especially chalk and limestone, on walls, quarries, rocky outcrops and dunes.
Flora p.93, Atlas p.56 (21), 1987 onwards (17).

**VC3**

SX45 Catherine Street, Devonport, *J.Jacob* (Jacob 1835) Laboratory, Mount Wise, 1846 (Keys 1866). Dockyard wall near St. Mary's Church, 1879, *T.R.A.Briggs* (Briggs 1880). Between Pennycomequick and Stoke, 1849 (Keys 1866). Turnchapel, before 1836 (Briggs 1880).
**SX55** In many places on the limestone from the eastern side of Cattewater to near Elburton: Mount Batton, Oreston Quarries, Pomphlett, Billacombe, near Hay Farm and limestone plateau near Elburton, *T.R.A.Briggs* (Briggs 1880). Billacombe, SX5053, 1992, *R.W.Gould* (DA 1993). Old railway track, Plymouth, SX504541, 2005, *P.D.Pullen*. Tetrad SX5454, 1976, *J.S.Rees* (Atlas). Near Yealm Bridge, 1863, *T.R.A.Briggs* (Briggs 1880).
SX56 Tetrad SX5066, 1973, *M.F.Spooner* (Atlas).
SX64 Thurlestone (Flora).
SX74 Kingsbridge churchyard, *T.R.A.Briggs* (Briggs 1878).
SX75 Tetrad SX7450, 1979, *M.F.Spooner* (Atlas).
SX76 Tetrad SX7468, 1973, *L.Hatch* (Atlas).
**SX77** Tetrad SX7872, 1977, *M.F.Spooner*; limestone outcrops near Bickington, SX791721, 2003, *R.E.N.Smith*. Limestone wall, Ilsington (Jones & Kingston 1829); *T.R.A.Briggs* (Rogers 1882).
**SX78** Base of bridge at Hisley Bridge, SX767811, 2007, *R.E.N.Smith*.
SX85 Yalberton, 1909, *A.H.Wolley-Dod* (Wolley-Dod 1910, **TOR**). Tetrad SX8856, 1961, *anon*. (Atlas).
**SX86** Paignton Road, Totnes, 1852, *S.Hannaford* (Hannaford 1852). Roadside quarry near Afton Bridge, SX839624, 2009, *R.E.N.Smith & C.J.Smith*. Tornewton, SX8167, 2007, *R.E.N.Smith & C.J.Smith*. Orley Common (Flora, **TOR**), occasionally since and still there at the quarry, SX823664, 1994, 2002 and 2012, *R.E.N.Smith & C.J.Smith*. Stallage Common (Flora). Dainton, SX8566, 1979, *M.A.Stile*. Abbotskerswell, SX848696, 1979, *M.A.Stile*. Kingskerswell (Flora). Marldon (Flora). Paignton, 1944, *S.C.Patterson* (DA 1945).
**SX87** Tetrad SX8072, 1971, *DAB* (Atlas). Near Newton Abbot, *W.M.Rogers* (Rogers 1882). Kingsteignton Church, *W.M.Rogers* (Rogers 1882). Chudleigh Rocks, SX8678, 1991, *B.P.Thurlow*.
SS88 Bridford, *R.Waterfield* (DA 1931).
**SX95** Fishcombe (Flora); Churston Cove, SX918570, 2000 and 2008, *R.E.N.Smith*. Tetrad SX9254, 1972, *M.Parkinson* (Atlas). Berry Head (Flora); 1952, *anon*. (Atlas); 1955, *R.A.Boniface* (**NMW**); 1973, *M.Parkinson* (Atlas); SX941561, 1988; SX942562, 1992, *R.E.N.Smith*; SX9456, 2004, *E.J.McDonnell*; 2012, *D.C.Wood & M.Woods*.
**SX96** SX9065, 1974, *E.Deighton* (Atlas). Chapel Hill, Torquay, SX903651, 2007, *R.E.N.Smith & C.J.Smith*. Lummaton Quarry, SX911665, 2009, *R.E.N.Smith & W.Deakin*. Tetrad SX9264, 1973, *M.C.F.Proctor* (Atlas); 1977, *M.Pool* (Atlas). Anstey's Cove, 1851, *E.Lees* (Lees 1851); above Anstey's Cove, 1909, *A.H.Wolley-Dod* (Wolley-Dod 1910); SX935646, 2002, *R.E.N.Smith*. Babbacombe (Flora, **RAMM**); Walls Hill, SX935651, 2003 and 2013, *R.E.N.Smith*. St. Marychurch (DA 1913).
SX97 Dawlish (Flora, **TOR**).
SX98 Kenn (Flora, **RAMM**).
ST01 Tetrads ST0612 and ST0812, 1971, *P.M.Hill* (Atlas).
ST30 Smallridge, ST309011, 1956, *M.L.Bolitho* (BSBI Atlas).
SY18 Sidmouth (Flora, **RAMM**). Salcombe Regis, *R.Waterfield* (DA 1929); Dunscombe Cliffs (Flora). Tetrad SY1888, 1983, *W.H.Tucker*.
SY19 Sidbury, *A.Cresswell* (Flora). Feniton, *G.T.Harris* (DA 1931).
SY28 Axmouth cliffs (Flora).

**VC4**

SS14 Lundy, tetrad SS1442, 1976, *P.Wilkins* (Atlas)
**SS43** Instow, SX4731, 1969, *M.Tulloh* (Atlas). Braunton Burrows, near old tank platforms, 1961, *F.R.Elliston-Wright* (DA 1962); tetrad SS4436, 1972, *M.Jacques* (Atlas). White House, Braunton Burrows, tetrad SS4632, 1987, *DAB*.
SS62 Bishop's Nympton (Flora, **RAMM**).
SS74 Tetrad SS7048, 1979, *E.T.Mold* (Atlas).
SS82 Railway between Yeo Mill and East Anstey, SS854259, *C.M.A.Cadell* (DA 1960).

Also recorded from **VC3**: **SX45**, SX99 (BSBI Atlas).

● ***Arabis collina*** Ten.
Rosy Cress
Very rare. Introduced, a neophyte; native in southern Europe. A garden escape. Known from Buckland in the Moor for many years.
1987 onwards (1).

**VC3**
**SX77** Established on walls at Buckland in the Moor, SX722731, 1970, *M.C.Hockaday* (**K**); 1989, *B.P.Thurlow* det. *T.C.G.Rich* (DA 1990); 1995, 2007 and 2013, *R.E.N.Smith*.

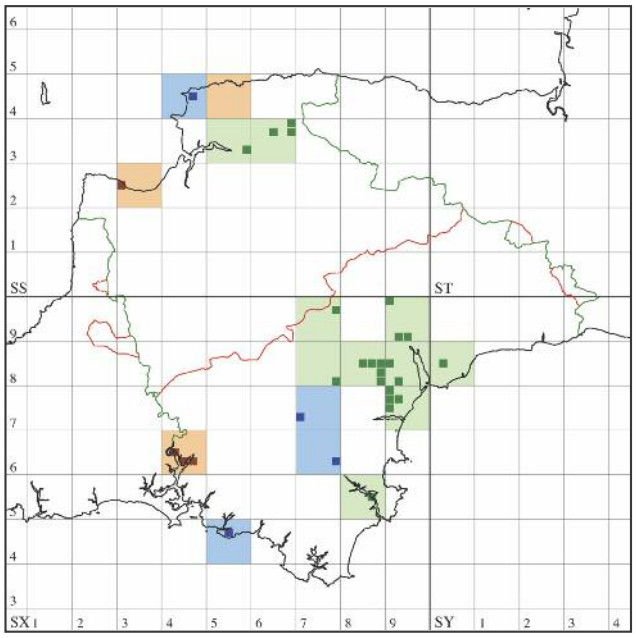
**VC4**
SS43 Northam, 1944, *Miller* det. *Kew* (DA 1945, Wallace 1948a).

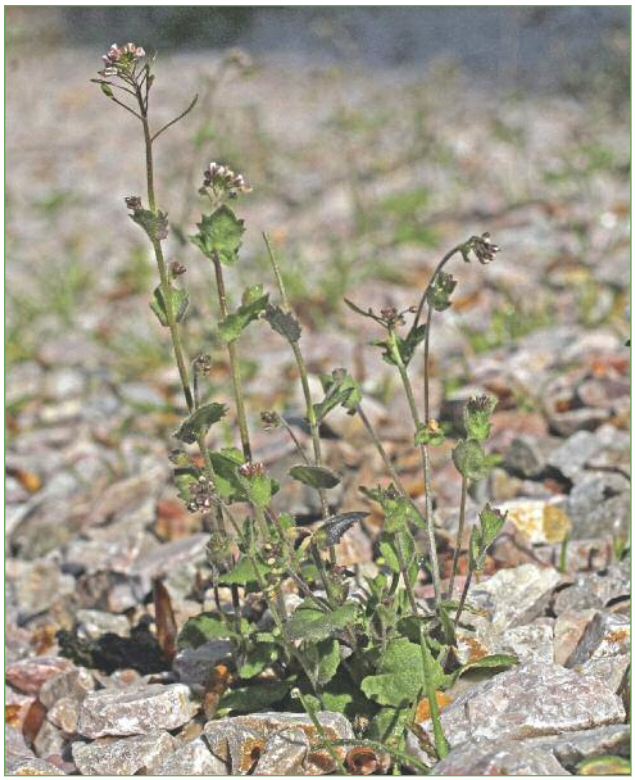
● ***Arabis scabra*** All.
Bristol Rock-cress
Extinct. Native at Bristol, introduced in Devon. Found once as a casual in VC4 at Weare Gifford, SS42 (Flora).
Flora p.93, Atlas as *A. stricta* Huds. (0), 1987 onwards (0).

● ***Aubrieta deltoidea*** (L.) DC.
Aubretia
Occasional. Introduced, a neophyte; native in southern Europe. A garden escape on walls and bridges throughout most of the county, but barely naturalising away from towns and villages. Under-recorded at the tetrad level.
Atlas p.56 (0), 1987 onwards (76).

● ***Draba muralis*** L.
Wall Whitlowgrass – **Map 260**
Rare. Nationally Scarce. Native but introduced in Devon. Local on limestone rocks and walls. An established weed in the garden at Dartington. It has only been seen at four locations since the Atlas was published. These are listed below.
Flora p.97, Atlas p.57 (23), 1987 onwards (4).

**Map 260. *Draba muralis* (Wall Whitlowgrass)**



**Wall Whitlowgrass *Draba muralis***

**VC3**
**SX54** About 25 plants on a wall at Noss Mayo, SX5547, 1996, *L.J.Margetts & L.M.Spalton* (DA 1997). Frequent on rock outcrop on edge of Noss Mayo, SX547474, 2008, *R.E.N.Smith & C.J.Smith* (DA 2009, **RENS**).
**SX76** One plant in pasture at Dartington, SX797636, 2002, *V.Cozens* conf. *R.E.N.Smith*. Locally common garden weed, Dartington Hall Garden, SX796626, 2006, *R.E.N.Smith & C.J.Smith* (DA 2007, **RENS**).
**SX77** Locally abundant on limestone chippings at Leusdon Church where it may have been introduced with the chippings, SX709732, 2009 and 2013, *R.E.N.Smith* (DA 2010, **RENS**).

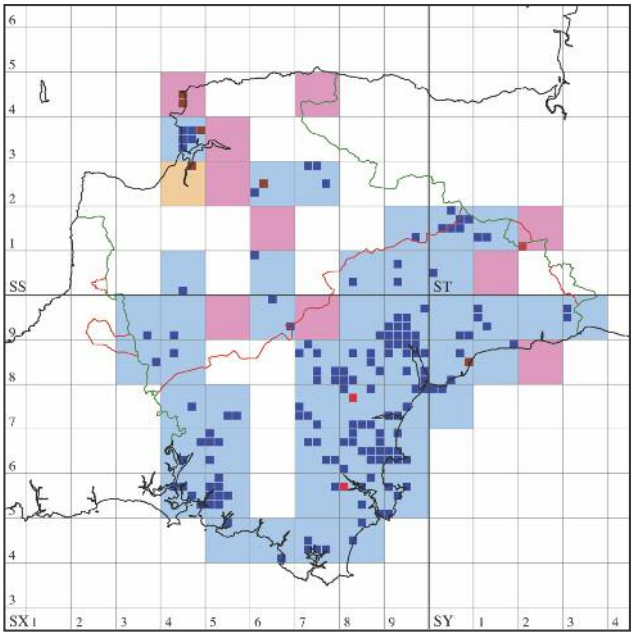
**VC4**
**SS44** Edge of Mortehoe at North Morte, SS4645, 2010, *M.Breeds* (DA 2011).

● ***Erophila verna*** **agg.**
Frequent. Native. The taxonomy of *E. verna* s.l. has been revised since the publication of both the Flora and the Atlas. The aggregate is widely distributed on freely draining open soils, dunes, in pavement cracks and on old walls, especially in calcareous situations. The three species now recognised are treated separately.
Flora p.97, Atlas p.57 (116).

● ***Erophila majuscula*** Jord.
Hairy Whitlowgrass
Very rare. Native.
1987 onwards (3).

**VC3**
**SX54** Garden weed at Newton Ferrers, SX552480, 1997, *R.E.N.Smith* conf. *T.T.Elkington* (DA 1998, **RENS**).

**Map 261. *Erophila verna* (Common Whitlowgrass)**




**SX55** Puslinch, Kitley Cave car park, SX571511, 2011, *R.M.H.Hodgson*.

**VC4**

**ST01** Road verge at Holcombe House, Holcombe Rogus, ST056189, 1998, *L.J.Margetts & L.M.Spalton*, det. *T.T.Elkington* (DA 2000, **LJM**); 2008, *L.J.Margetts*.

● ***Erophila verna*** (L.) DC.
Common Whitlowgrass – **Map 261**
Occasional. Native. The commonest of the three taxa but scarce in VC4 except in the Braunton area.
1987 onwards (54).

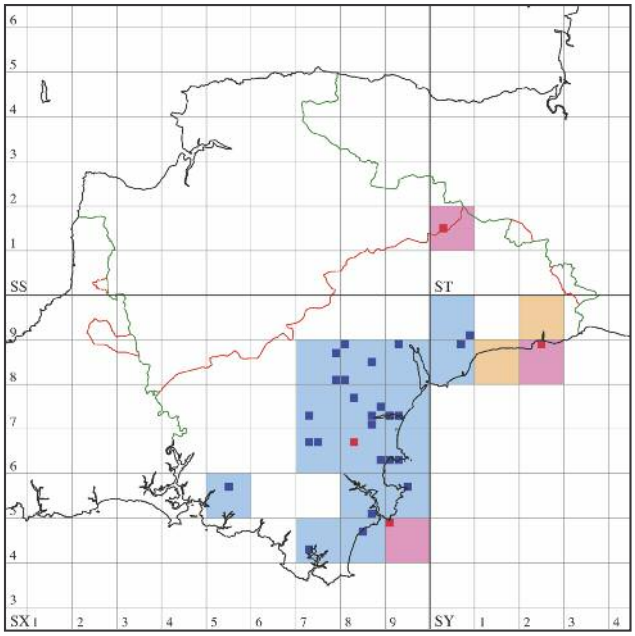
● ***Erophila glabrescens*** Jord.
Glabrous Whitlowgrass – **Map 262**
Rare. Native. Probably under-recorded in much of the county. Most records are from the south and east. It has also been found in the Plymouth area.
1987 onwards (28).

● ***Conringia orientalis*** (L.) Dumort.
Hare's-ear Mustard
Extinct. Introduced, casual; native in the eastern Mediterranean. The Flora lists records from eight parishes in South Devon and nine from the north. There is an additional undated but old record from Chagford. Records from Newton Abbot are erroneous.
Flora p.105, Atlas p.60, 1987 onwards (0).

**VC3**

SX45 Princess Square, Plymouth, *J.S.Tozer* (Hooker 1835).
SX78 Chagford, *anon.* (**BIRM**).
SX84 Torcross, *S.C.Patterson* (DA 1942).
SX85 Dartmouth Naval College, 1920, *R.M.Milne* (DA 1923).
SX86 Paingnton, *anon.* (Flora). Totnes, 1921, *C.V.B.Marquand* (DA 1921).
SX87 [Wolborough rubbish tip, Newton Abbot, 1926, *E.D.Morgan* (Flora, **TOR**); 1937, *G.T.Fraser* (Flora). Morgan's specimen is indet., not this species, *L.J.Margetts*. Fraser's record may be an error for *Sisymbrium orientale* which he collected from this site in 1937 (**TOR**).]

**Map 262. *Erophila glabrescens* (Glabrous Whitlowgrass)**




SX99 Rewe, *W.S.M.D'Urban* (Greig 1957, **RAMM**).
SY08 Exmouth, *R.Orme* (DA 1928).
SY28 Beer, *W.T.Harris* (DA 1946).
SS90 Bickleigh, *G.R.A.Watts* (DA 1929). Near Silverton, 1923, *G.B.Savery* (DA 1923). Up Exe, *W.S.M.D'Urban* (Greig 1957, **RAMM**).
SS91 Tiverton, *A.E.Mahood* (Greig 1957).

**VC4**

SS42 Northam (Flora). Abbotsham (Flora, **RAMM**).
SS53 Bishop's Tawton, *R.Taylor* (Flora). Barnstaple and Fremington, *F.A.Brokenshitre* (DA 1912).

**Common Whitlowgrass *Erophila verna***

SS54 Ilfracombe (Flora). Combe Martin, 1942, *A.E.Mahood* (DA 1944).
SS62 Castle Hill, Filleigh, 1918, *E.Fortescue* (Flora).
SS63 Stoke Rivers (Flora).
SS82 West Anstey, before 1894, *E.V.Freeman* (DA 1927).

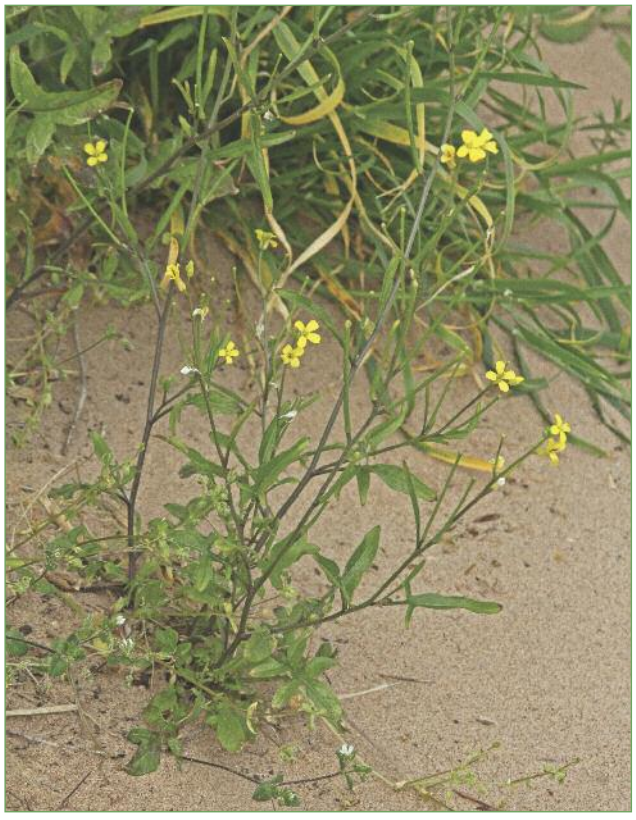
Also recorded from **VC3**: SX84, SX99 (BSBI Atlas).

● ***Conringia perfoliata*** (C.A.Mey.) N.Busch
Extinct. Introduced, casual; native in Europe. Perhaps more likely to have been *C. orientalis*.
1987 onwards (0).

**VC3**
SX45 Above Devonport Docks, 1895, *G.C.Druce* (Druce 1895).

● ***Diplotaxis tenuifolia*** (L.) DC.
Perennial Wall-rocket
Very rare. Introduced, an archaeophyte. Usually casual on old walls and waste ground. Perhaps persistent in one or two places in South Devon. Never common and perhaps sometimes confused with *D. muralis*.
Flora p.111, Atlas p.60 (9), 1987 onwards (3).

**VC3**
SX45 Once plentiful in Cattedown quarries and walls in vicinity (Jacob 1835) but less so by 1880, *T.R.A.Briggs* (Briggs 1880). Turnchapel, 1873, *T.R.A.Briggs* (Briggs 1880).
SX46 Bere Ferrers, SX4563, 1969, *A.J.C.Beddow* (Atlas).
SX47 Newbridge, Tavistock, *J.Jacob* (Jacob 1835).
SX55 Billacombe Common, SX518539, 1976, *J.S.Rees* (Atlas).



**Annual Wall-rocket *Diplotaxis muralis***

SX64 Hope, South Huish (Flora).
SX86 Totnes, *W.C.Bennett* (DA 1942).
**SX65** Several plants on a wall top at Modbury, SX655512, 2009, *R.E.N.Smith & C.J.Smith* (DA 2010, **RENS**).
SX87 Teigngrace, 1909, *A.H.Wolley-Dod* (Flora). Stover Canal, 1924, *E.D.Morgan* (**TOR**). Wolborough, 1923, *C.E.Larter* (Flora). Highweek and Newton Abbot tip, Wolborough, *G.T.Fraser* (Flora). Newton Abbot, SX8571, 1969, *M.C.Hockaday* (Atlas). SX8572, 1961, *anon.* (Atlas).
SX88 Bridford, 1931, *R.Waterfield* (Flora).
SX95 Paignton, 1906, *D.D.Cunningham* (Flora, **TOR**); *C.E.Larter* (DA 1929).
SX96 St. Marychurch, *C.E.Larter* (DA 1930).
SX97 Waste ground, Teignmouth, 1909, *A.H.Wolley-Dod & E.S.Marshall* (Wolley-Dod 1910). Combeinteignhead, 1926, *G.H.Douglas* (Flora, **TOR**); Tetrad SX9272, 1973, *G.Hawkins* (Atlas). Dawlish (Flora).
SX98 Starcross, *G.T.Fraser* (DA 1942). Powderham, *G.T.Fraser* (DA 1942).
**SX99** Exeter (Ravenshaw 1860); *R.Waterfield* (Flora); *R.Taylor* (Flora). Tetrad SX9292, 1979, *J.M.Heap* (Atlas); Exe Bridges, Exeter, SX9192, 2004, *J.J.Ison*; City Walls, SX922926, 2009, *J.J.Ison*. Tetrad SX9692, 1976, *J.H.T.Knight* (Atlas).
SY08 Exmouth Harbour, 1876, *W.M.Rogers* (Rogers 1878); garden weed at Exmouth, *B.Hall* (DA 1934). Otterton, *G.T.Harris* (DA 1916). Cliffs at Budleigh Salterton, *G.T.Harris* (Flora).

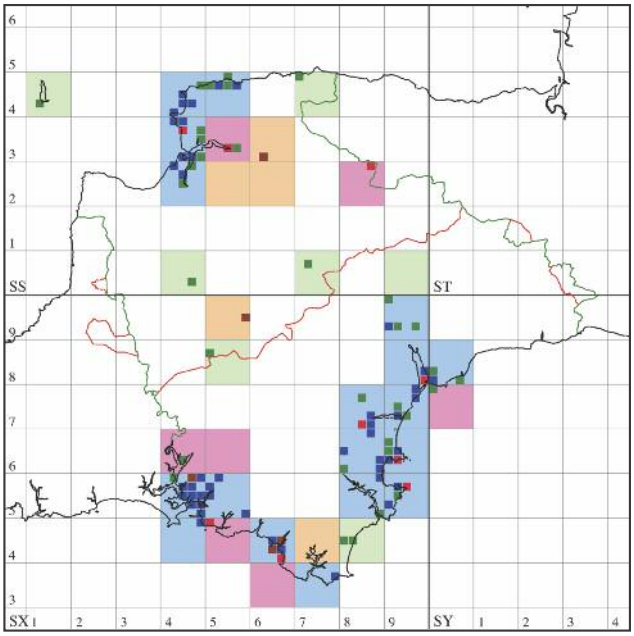
**VC4**
SS30 Tetrad SS3006, 1973, *M.F.Spooner* (Atlas).
SS32 Buck's Mills, Clovelly, SS3124, 1957, *J.C.Hilton* (DA 1958).
SS42 Westleigh (DA 1929).
SS44 Tetrad SS4444, 1952, *anon.* (Atlas). Pig's Lane, Combe Martin, 1920 to 1928, *J.Clennell* (DA 1946); apparently now extinct, *H.W.Pugsley* (DA 1946).
SS53 Barnstaple (Flora, **RAMM**).
SS54 Ilfracombe (Flora, **RAMM**).

● ***Diplotaxis muralis*** (L.) DC.
Annual Wall-rocket – **Map 263**
Occasional. Introduced, a neophyte; native in Europe. An annual weed of waste places, mostly near the coast, occasionally found on cultivated ground.
Flora p.111, Atlas p.60 (64), 1987 onwards (59).

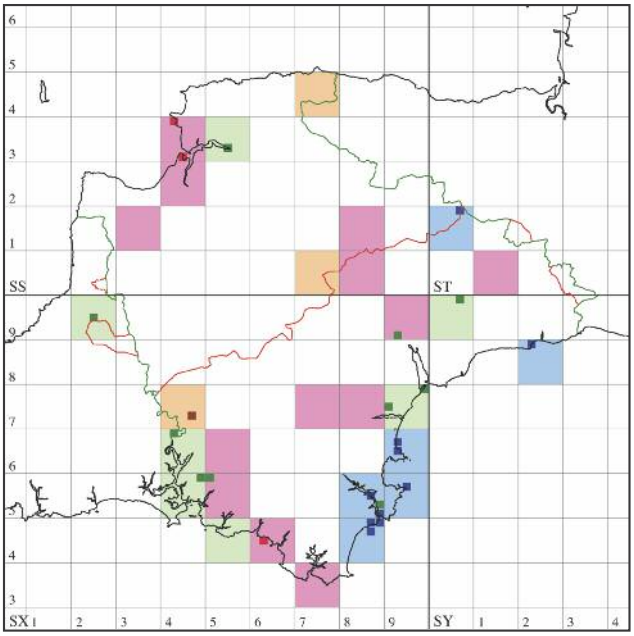
● [***Diplotaxis viminea*** DC.
Vineyard Wall-rocket
Listed in the Flora, p 112, from SX96, Torquay, 1907, *C.F.Vincent* (**TOR**). The specimen has been re-determined as *D. muralis* by *L.J.Margetts*.]

● ***Brassica oleracea*** L.
Wild Cabbage – **Map 264**
Rare. Nationally Scarce. Native and introduced. Native in coastal areas. Inland records are all of escapes from cultivation. Recent localised records from coastal sites are listed.
Flora p.106, Atlas p.60 (16), 1987 onwards (24).

**Map 263. *Diplotaxis muralis* (Annual Wall-rocket)**




**Map 264. *Brassica oleracea* (Wild Cabbage)**




**VC3**

**SX64** Meddrick Rocks, SX621459, 1994, *R.E.N.Smith*.

**SX84** Stoke Fleming, SX8647, 2010, *R.E.N.Smith*. Warren Point, SX877485, 1993 to 2013, *R.E.N.Smith*. Combe Point, SX882486, 2001, *N.F.Stewart*; 2011, *R.E.N.Smith*. Blackstone Point, SX88495, 2006 to 2009, *R.E.N.Smith*. Compass Cove SX884494, 2013, *R.E.N.Smith*.

**SX85** By River Dart, Lower Dittisham, SX8655, 2006, *R.E.N.Smith & C.J.Smith*. Mill Bay Cove, SX893503, 1993 and 2005, *R.E.N.Smith*. Warfleet, SX8850, 2006 to 2009, *R.E.N.Smith*.

**SX95** Berry Head, SX9456, 2012, *D.C.Wood & M.Woods*.

**SX96** Anstey's Cove, SX9364, 2010, *R.E.N.Smith*. Walls Hill, SX9365, 2003 and 2013, *R.E.N.Smith*. Near Petit Tor, SX9266, 2006, *R.E.N.Smith*. Watcombe, SX927676 and SX925676, 2006, *R.E.N.Smith*.

**SY28** Beer, SY2389, 2006, *R.E.N.Smith & C.J.Smith*.

**VC4**

**SS43** West Appledore, SS4530, 1987, *W.H.Tucker*. Croyde Bay, SS4238, 1987, *W.H.Tucker*.

● ***Brassica napus*** L.
**subsp. *oleifera*** (DC.) Metzg.
Oil-seed Rape
Frequent. Introduced, a neophyte; cultivated origin. Widely grown as a crop and often found as a relict of cultivation. Subsp. *rapifera* Metzg., Swede, may also occur but there are no recent records.
Flora p.106, Atlas p.61 (27), 1987 onwards (126).

● ***Brassica rapa*** L.
**subsp. *campestris*** (L.) A.R.Clapham. Wild Turnip
**subsp. *oleifera*** (DC) Metzg. Turnip-rape
**subsp. *rapa*.** Turnip – **Map 265** (overleaf)
Occasional. Introduced, subsp. *campestris* is an archaeophyte; subsp. *oleifera* is rarely grown and a more recent introduction; subsp. *rapa* is grown as a fodder crop (stubble turnips). Widespread in the county. While there is almost no information regarding the recent occurrence of each subspecies, subsp. *rapa* is probably the most likely one to be encountered.
Flora p.107, Atlas p.61 (41), 1987 onwards (65).

● ***Brassica tournefortii*** Gouan
Pale Cabbage
Very rare. Introduced, casual; native in the Mediterranean.
1987 onwards (1).

**VC3**

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

**SX97** Waste ground, Ness car park, Shaldon, SX9371, 2006, *R.E.N.Smith & C.J.Smith* (DA 2007, **RENS**).

● ***Brassica juncea*** (L.) Czern.
Chinese Mustard
Very rare. Introduced, casual; native in Asia.
Flora as *Sinapis juncea* L. p.111, Atlas p. 61 (0), 1987 onwards (5).

**VC3**

**SX98** Exmouth Docks, 1917, *M.Cobbe* (DA 1919). Waste ground, Exminster Hospital, SX938879, 1999, *R.E.N.Smith* (DA 2000, **RENS**).

**ST00** Roadside at Cullompton, 1997, *J.F.Southey* (DA 1998).

**VC4**

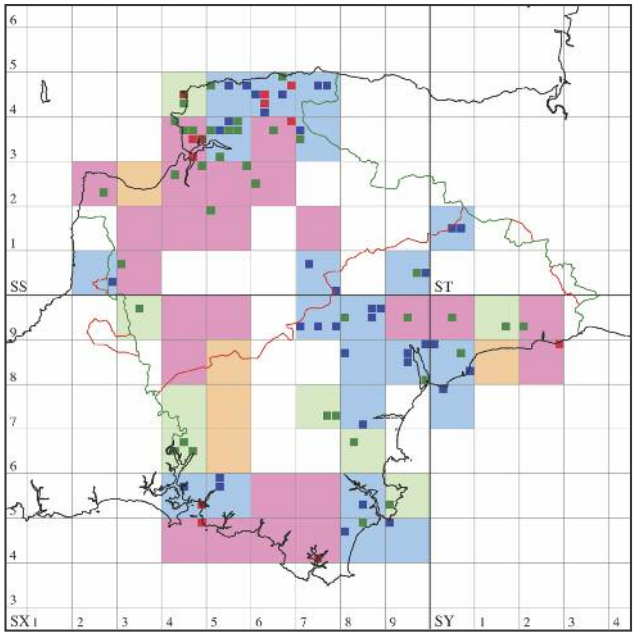
**SS42** Bideford waterfront, SS455271, 1997, *W.H.Tucker* (DA 1998).

**SS43** Lower Yelland, SS483323, 1999, *W.H.Tucker & R.E.N.Smith* (DA 2000, **RENS**).

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

SS91 Tiverton, *G.R.A.Watts* det. *T.C.G. Rich* (DA 1930, **BM**).

**Map 265. *Brassica rapa* (Turnip)**




● ***Brassica carinata*** A.Braun
Ethiopian Rape
Very rare. Introduced, casual; native in Ethiopia.
1987 onwards (1).

**VC3**: **SX84** (BSBI Atlas).

● ***Brassica elongata*** Ehrh.
Long-stalked Rape
Extinct. Introduced, casual; native in southeast Europe.
Flora p.108, Atlas p.61 (0), 1987 onwards (0).

Wild Cabbage *Brassica oleracea*, p.364

**VC3**
SX98 Exmouth Docks, SX9980, 1917, *M.Cobbe* (Druce 1918b, DA 1919).

● ***Brassica nigra*** (L.) W.D.J.Koch
Black Mustard – **Map 266**
Frequent. Native. Abundant near the sea on cliff tops, hedgerows and waste land. Much less common inland.
Flora as *Sinapis nigra* L. p.109, Atlas p.61 (194), 1987 onwards (197).

● ***Sinapis arvensis*** L.
Charlock
Frequent. Introduced, an archaeophyte. A weed of cultivation and in waste places. Widespread and common throughout the county but absent from the high ground and much less common now than in the past.
Flora p.110, Atlas p.61 (765), 1987 onwards (163).

● ***Sinapis alba*** L.
White Mustard – **Map 267**
Occasional. Introduced, an archaeophyte. Scattered in waste places and cultivated land throughout the county. Only subsp. *alba* has been recorded.
Flora p.110, Atlas p.61 (52), 1987 onwards (45).

● ***Eruca vesicaria*** (L.) Cav.
**subsp. *sativa*** (Mill.) Thell.
Garden Rocket
Very rare. Introduced, casual; native in southern Europe.
1987 onwards (1).

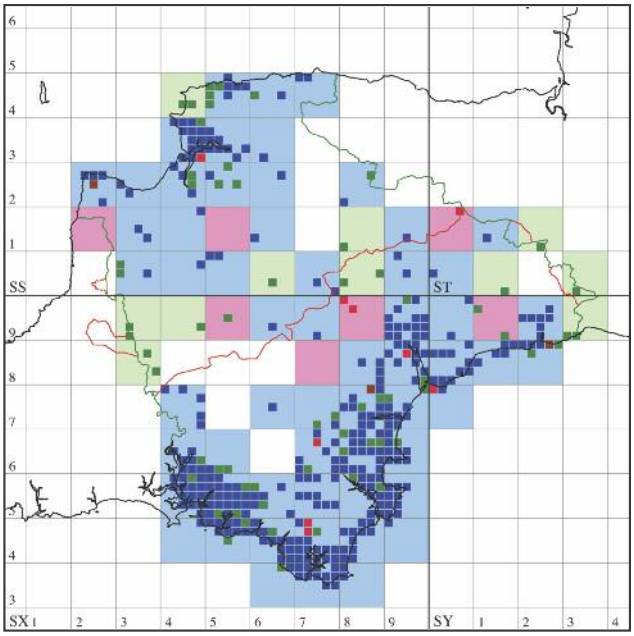
**VC3**
**SY28** Base of Haven Cliffs, Seaton, SY256898, 1999, *T.C.G.Rich* (DA 2000, **NMW**).

● ***Erucastrum gallicum*** (Willd.) O.E.Schulz
Hairy Rocket
Very rare. Introduced, a neophyte; native in Europe.
Casual in Devon.
1987 onwards (2).

**VC3**
**SX45** Pavement weed, Plymouth city centre, SX483546, 2006, *P.D.Pullen* (DA 2007, **RENS**).
**SX99** Exeter, SX9194, 1996, *R.Takagi-Arigho* (DA 1996, **RENS**).
SY18 In a potato field north of Branscombe, 1957, *M.McCallum Webster* (BSBI Atlas).
SY28 Beer Cliffs, SY2289, 1958, *M.McCallum Webster* (DA 1959).

● ***Hirschfeldia incana*** (L.) Lagr.-Foss.
Hoary Mustard
Rare. Introduced, a neophyte; native in southern Europe.
Introduced with wool waste or grain and found in waste places. It has probably persisted in Newton Abbot following introduction at Bradley Woollen Mills. Appears to be increasing its range rather quickly.
Flora as *Brassica incana* (L.) F.Schultz. p.108, Atlas p.62 (0), 1987 onwards (15).

**Map 266. *Brassica nigra* (Black Mustard)**




**VC3**

**SX44** On rough ground by coast path at Heybrook Bay, SX498488, 2009, *P.D.Pullen* (DA 2010).

**SX45** Plymouth, Millbay Docks, SX468539, 2013, *P.D.Pullen*. On limestone rocks by the sea at Plymouth Hoe, SX475538, on roadsides at Cattedown, SX4953, beside the railway by the Plym estuary, SX498548, all 2009, *P.D.Pullen*, (DA 2010).

**SX46** Roadside by Plymouth airport, SX498604, 2011, *P.D.Pullen*.

**SX87** Locally frequent on trading estate, Bovey Heathfield, SX826759, 2006, *R.E.N.Smith & C.J.Smith*. On wool waste at Bradley Woollen Mills, SX853711, 1957, *M.McCallum Webster* (McCallum Webster 1959). Common on waste ground at Jetty Marsh Lane, Newton Abbot, SX861721, 1995, *R.E.N.Smith & C.J.Smith*. A few plants near Tucker's Maltings, Newton Abbot, SX866718, 1995, *R.E.N.Smith & C.J.Smith* (DA 1996, **RENS**). Jetty Marsh, SX860721, 2006, *R.E.N.Smith & C.J.Smith*. Newton Abbot rubbish tip, 1957, *N.Y.Sandwith & M.McCallum Webster* (BSBI Atlas).

**SX97** Dawlish, SX958756, 2012, *P.D.Pullen*.

**SX98** Exmouth Dock, SX9980, 1958, *V.M.Wilkinson* det. *M.McCallum Webster* (DA 1959). Road verge at Exton, SX980862, 2001, *R.E.N.Smith & C.J.Smith* (DA 2002, **RENS**); 2008, *J.J.Ison*. On rough ground at Powderham, SX972847, 2009, *P.D.Pullen* (DA 2010).

**SX99** On stonework near end of Exeter Canal at Trews Weir, SX923915, 2004, *J.J.Ison* (DA 2005). A few plants on site of old railway siding at Stoke Canon, SX933975, 2005, *J.J.Ison*.

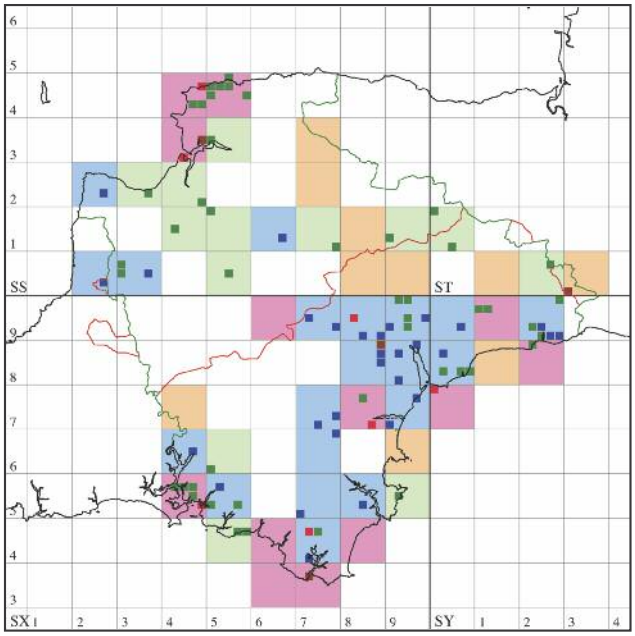
**SY08** The Maer, Exmouth, SY0080, 1992, *R.Takagi-Arigho* (DA 1993).

SY18 Salcombe Regis, 1928, *F.A.Sowter* conf. *A.R.Horwood* (Flora).

**VC4**

SS53 Barnstaple, 1917, *W.P.Hiern* (Flora).

**Map 267. *Sinapis alba* (White Mustard)**

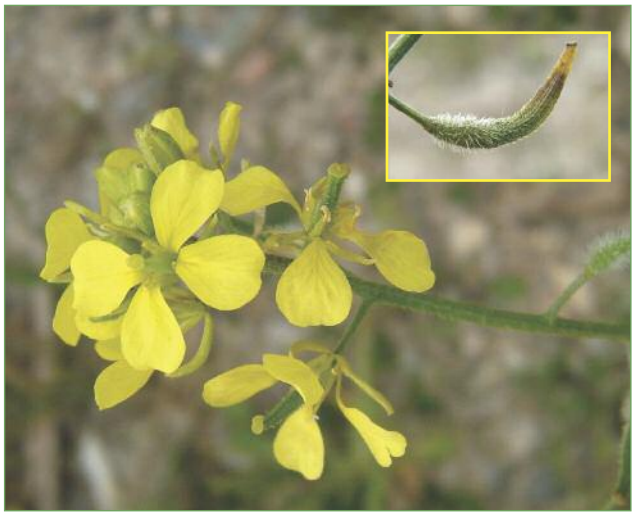



SS54 Casual at Ilfracombe, 1917, *M.Cobbe* (Druce 1918b).

**SS61** Eggesford, tetrad SS6810, 2006, *J.Davies*.

Also recorded from **VC4**: **SX38** (BSBI Atlas).

● ***Coincya monensis*** (L.) Greuter & Burdet
[**subsp. *monensis***
Isle-of-Man Cabbage
Native on the coasts of south Wales, northwest England and southwest Scotland. The specimen from Torquay (**TOR**), mentioned in both the Flora and the Atlas, was collected from a wall in St. Marychurch by E.Parfitt in 1892. It has been examined by L.J.Margetts and renamed *Coincya monensis* subsp. *cheiranthos*, Wallflower Cabbage. There are no specimens for the records made from Bickington and Kingskerswell also reported in the Flora and the occurrence of this subspecies in these inland localities must be considered doubtful.
Flora as *Brassicella monensis* (L.) O.E.Schulz. p.108, Atlas as *Rhynchosinapis monensis* (L.) Dandy ex Clapham. p.62, 1987 onwards (0).]



White Mustard *Sinapis alba*

**subsp. *cheiranthos*** (Vill.) Aedo, Leadlay & Muñoz Garm.
Wallflower Cabbage
Extinct. Introduced, a neophyte; native in western Europe. Casual in Devon, not seen since 1950.
Flora as *Brassicella cheiranthos* (Vill.) Pugsl. p.108, Atlas as *Rhynchosinapis cheiranthos* (Vill.) Dandy ex Clapham p.62 (0), 1987 onwards (0).

**VC3**
SX87 On a wall, Chudleigh, 1932, *A.Crawshaw* (DA 1941).
SX96 St. Marychurch, 1892, *E.Parfitt* det. *L.J.Margetts* (Flora, **TOR**).
SX97 Dawlish Warren, *C.E.Larter*, 1927-28 (Flora).
SX99 Exeter University, *University College Field Club* (DA 1922); Exeter, *E.H.Aviolet* (Flora).

**VC4**
SS43 Waste land, Braunton, *H.H.Harvey* (DA 1922). Hectad record, 1950, *C.M.A.Cadell* (BSBI Atlas).
SS44 Woolacombe, *G.T.Fraser* (DA 1941).
SS53 Bishop's Tawton, *F.A.Brokenshire* (Flora). Barnstaple, *Miss Brokenshire* (DA 1922, **RAMM**).
SS91 Tiverton, *W.P.Hiern* (DA 1922).

● ***Coincya wrightii*** (O.E.Schultz) Stace – see panel opposite

● ***Carrichtera annua*** (L.) DC.
Cress Rocket
Extinct. Introduced, casual; native in the Mediterranean.
1987 onwards (0).

**VC3**
SX87 Newton Abbot, 1971, *M.C.Hockaday* det. *T.C.G.Rich* (**RNG**).

● ***Cakile maritima*** Scop.
Sea Rocket – **Map 268** (p.370)
Occasional. Native. Locally frequent on sandy beaches and fore-dunes on both coasts. British plants are all subsp. *integrifolia* (Hornem.) Hyl. ex Greuter & Burdet.
Flora p.119, Atlas p.62 (28), 1987 onwards (32).

● ***Crambe maritima*** L.
Sea-kale – **Map 269** (p.370)
Rare. Native. Local on shingle beaches and cliffs, but rare on the north coast. Commonest at Strete Gate and on Slapton Line; most populations are very small. Recent localised records are listed.
Flora p.118, Atlas p.62 (12), 1987 onwards (19).

**VC3**
**SX54** Wembury Point, SX5048, 2005 and 2009, *P.D.Pullen*.
**SX63** Soar Mill Cove, SX697376, 2007, *S.J.Leach*.
**SX64** Thurlestone, SX670423, 2009, *G.Waterhouse*.
**SX83** Hallsands, SX817389, 2010, *N.F.Stewart*.
**SX84** Beesands, SX8240, 2011, *R.E.N.Smith & C.J.Smith*. Slapton Line, SX8243, 2008, *R.E.N.Smith*; SX8345, 1992, *DAB* then regularly to 2012, *D.C.Wood & M.Woods*. Strete Gate Beach, SX838461, 2008 and 2013, *R.E.N.Smith*. Strete Gate Beach, SX8446, 1992, *DAB*; 2013, *R.E.N.Smith*. Blackpool Sands, SX8547, 2009, *N.Green*.
**SX97** Dawlish Warren, *D.Bolton* (BSBI Atlas).
**SY18** Salcombe Mouth, SY145876, 2004, *J.J.Ison*. Weston Mouth, SY163879, 2012, *J.J.Ison*. Western Cliff, SY170878, 2002, *D.Cann*.
**SY28** Culverhole Point, SX2789, 2006, *J.M.Lock*. Seaton Beach, SY27228940, 2007, *B.Laney*.
**SY38** Humble Point, SY305899, 2005, *DAB*; 2006, *N.F.Stewart*.
**SY39** Humble Point, SY302900, 2005, *DAB*. Below Whitlands Cliff, SY3090, 2006, *N.F.Stewart*.

**VC4**
**SS43** Airey Point, Braunton, SS4432, 1987 and 1988, *J.Breeds*.

● ***Crambe hispanica*** L.
Abyssinian Kale
Very rare. Introduced, casual; native in the Mediterranean.
1987 onwards (1).

**VC9**
**ST30** Casual on roadside at Wadbrook Farm, ST323018, 2004, *R.E.N.Smith & C.J.Smith* det. *T.C.G.Rich* (DA 2009, **NMW**, **RENS**).

● ***Raphanus raphanistrum*** L.
**subsp. *raphanistrum***
Wild Radish
Occasional. Introduced, an archaeophyte. A weed of cultivated and waste ground with scattered records throughout the county in suitable places. White flowered and yellow flowered forms are equally common and often occur together. Var. *aureus* Wilmott, the deep yellow form, was reported from the vicinity of the River Otter estuary, SY074823, in 1989 and 1996, L.J.Margetts & L.M.Spalton (DA 1990, DA 1997).
Flora p.120, Atlas p.62 (79), 1987 onwards (68).

**subsp. *maritimus*** (Sm.) Thell.
Sea Radish – **Map 270** (p.371)
Occasional. Native. Sand dunes, open coastal grasslands and other disturbed maritime habitats. It was always very rare in North Devon and has not been reported there recently.
Flora as *R. maritimus* Sm. p.120, Atlas p.62 (28), 1987 onwards (33).

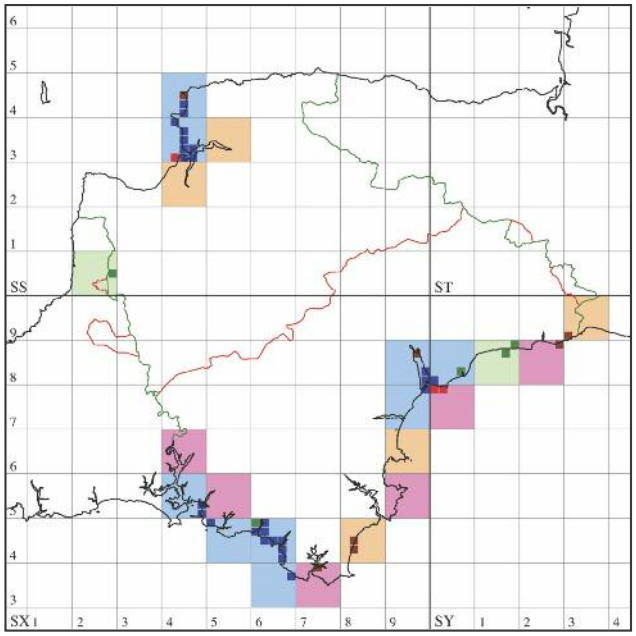
● ***Raphanus sativus*** L.
Garden Radish
Very rare. Introduced, casual; native in the Mediterranean. Found occasionally as a seed contaminant or garden escape in crops and on waste ground. There are only eight records from South Devon and two from the North.
Flora p.120, 1987 onwards (8).

● ***Sisymbrium irio*** L.
London-rocket
Very rare. Introduced, a neophyte; native in Europe. Found as a wool alien and in the vicinity of docks. It has persisted in Exeter since it was first recorded there in 1955.
Atlas p.51 (0), 1987 onwards (1).

● ***Coincya wrightii*** (O.E.Schultz) Stace
Lundy Cabbage
Very rare. Nationally Scarce. Vulnerable on the British Red List. Native. Endemic to Lundy. Known from Lundy since the 19th century when it was regarded as either *Brassica chieranthos* Vill. or *B. oleracea* L. It was eventually recognised as a distinct plant and a description published by O.E.Schulz (Wright 1936). Occurs along the southern and central parts of the eastern coast between Victoria Beach and Knight Templar Rock, with a few plants on the south coast at Lametry Bay, between the splash zone and the cliff top and extending inland to a maximum of 300 metres at Millcombe (Wright 1936, Marren 1972, Compton & Key 2000). Found mainly in open, exposed communities on south- and east-facing cliffs subject to high atmospheric humidity during the cooler months and great heat and high light intensity during the summer (Marren 1971) and on flatter ground above the slopes where it is protected from grazing. The range of the plants is relatively stable but population size is known to fluctuate (Compton & Key *ibid*.). It has been suggested that an increase in the population, from 320 in 1980 to 4,500 in 1994 may have been due to a series of warm dry summers and mild wet winters during the latter part of this period (Wiggington 1999). 10,000 plants were counted in 1998 (Compton & Key *ibid*.) and 8,000 in 2006 (Taylor 2006).
Flora as *Brassicella wrightii* O.E.Schulz ex Elliston-Wright p.108, Atlas as *Rhynchosinapis wrightii* (O.E.Schulz) Dandy ex Clapham p.62 (3), 1987 onwards (3).

**VC4**
**SS14** Between Victoria Beach and Knight Templar Rock, SS1444, SS1344, SS1345, SS1346. Lametry Bay, SS1443. Many observers from 1844, *T.V.Wollaston* (Wollaston 1845) to the present day.

Map 268. *Cakile maritima* (Sea Rocket)




**VC3**

SX87 Newton Abbot, *T.Stephenson* (DA 1946). On wool waste at Bradley Woollen Mill, SX853711, 1957, *M.McCallum Webster* (McCallum Webster 1959); 1969, *M.C.Hockaday*.

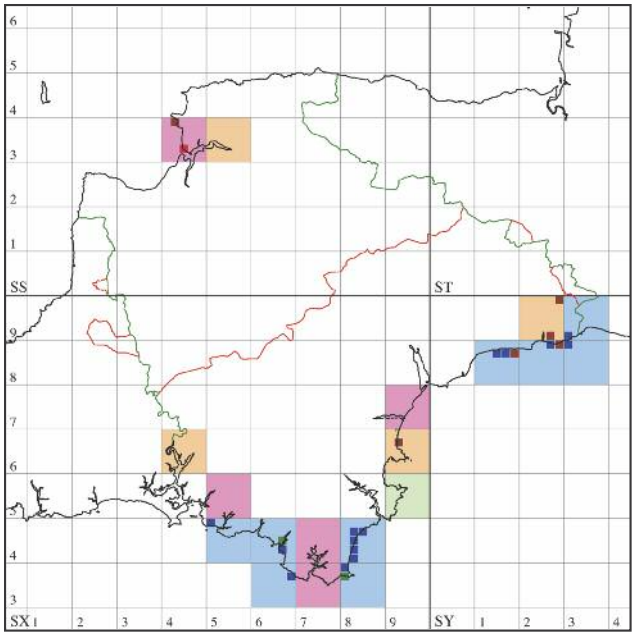
**SX99** Exeter Docks, 1955, *R.C.L.Howitt* det *A.Melderis* (BSBI Atlas); frequent on Exeter waterfront, SX918920, 2005, *P.D.Pullen* (**RENS**); SX9291, 1969, *A.J.C.Beddow* (Atlas); The Quay, Exeter, SX9292, 1988, *R.Takagi-Arigho* (DA 1990); SX921919 and SX921920, 2011, *J.J.Ison*.

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

● ***Sisymbrium loeselii*** L.
False London-rocket
Extinct. Introduced, a neophyte; native in Europe. Casual in Devon.
1987 onwards (0).

Sea Radish *Raphanus raphanistrum* ssp. *maritimus*, p.368

Map 269. *Crambe maritima* (Sea-kale)




**VC3**

SX76 In field treated with wool waste, Buckfast, 1957, *M.McCallum Webster* det. *T.C.G.Rich* (BSBI Atlas, **E**).

● ***Sisymbrium altissimum*** L.
Tall Rocket
Very rare. Introduced, a neophyte; native in Europe. Casual in Devon. First recorded at Plymouth in 1895 (Druce 1895) then occasionally, in waste places and on roadsides, between 1917 and 1975 (Flora, Atlas). There is only one recent record.
Flora p.103, Atlas p.51 (4), 1987 onwards (1).

**VC3**

**SX99** Weed on waste ground at St. Bridget's Nursery, Clyst St. Mary, SX982907, 2001, *R.E.N.Smith* (DA 2002, **RENS**).

● ***Sisymbrium orientale*** L.
Eastern Rocket – **Map 271**
Rare. Introduced, a neophyte; native in Europe. On waste ground or as a pavement weed. In VC3 it has been established at Exeter from 1911, Exmouth from 1919, Newton Abbot from 1937 and Plymouth from 1943. In VC4 it was first noticed in the Taw/Torridge estuary area before 1939. Casual elsewhere. Recent localised records are listed.
Flora p.104, Atlas p.51 (15), 1987 onwards (19).

**VC3**

**SX45** Millbay Docks, SX468542, 2006, *P.D.Pullen*. Plymouth, SX469543, 2004 and 2006, *P.D.Pullen*.

**SX54** Near Wembury, SX5048, 1990, *DAB* (DA 1991).

**SX55** Boringdon Hill, SX530580, 2007, *D.Fenwick*.

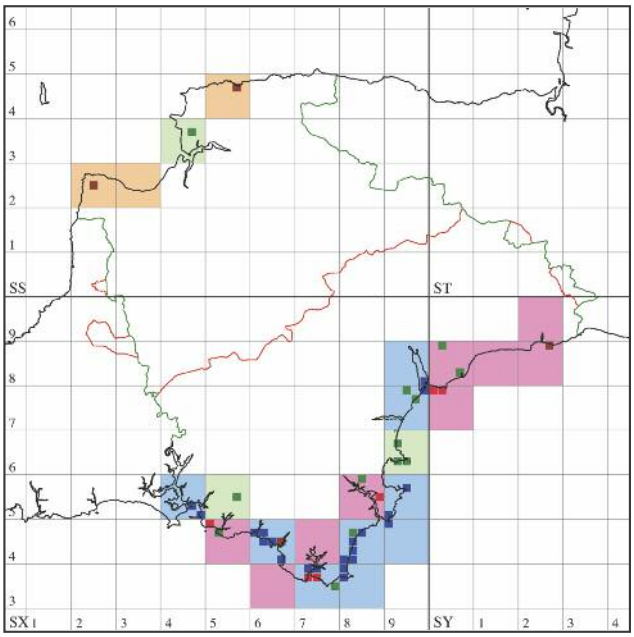
**SX87** Newton Abbot, SX8571, 1994, 1997 and 2004, *R.E.N.Smith* (**RENS**).

**SX98** Exmouth Docks, SX9980, 2009, *P.D.Pullen*. Exton, SX980863, 2013, *R.E.N.Smith*.

**SX99** Exeter, SX919922, 2009, *J.J.Ison*.

**SY08** The Maer, Exmouth, SY0080, 1994 and 2001, *R.E.N.Smith* (**RENS**).

**Map 270.** ***Raphanus raphanistrum*** **ssp.** ***maritimus*** **(Sea Radish)**




**SS80** Pavement weed, Crediton, SS823003, *N.F.Stewart*.

**VC4**

**SS42** Bideford, SS453265, 2013, *R.I.Kirby* (DA 2014), East-the-Water, SS456264, 2011, *N.F.Stewart*; SS457265, 2013, *R.I.Kirby* (DA 2014).
**SS43** Appledore, SS464302, 2005, *N.F.Stewart*.
**SS44** Mortehoe, SS457452, 1995, *DAB*.
**SS53** Rolle Quay, Barnstaple, SS553334, 2010, *R.M.H.Hodgson*.

● ***Sisymbrium erysimoides*** Desf.
French Rocket
Extinct. Introduced, casual; native in the Mediterranean. 1987 onwards (0).

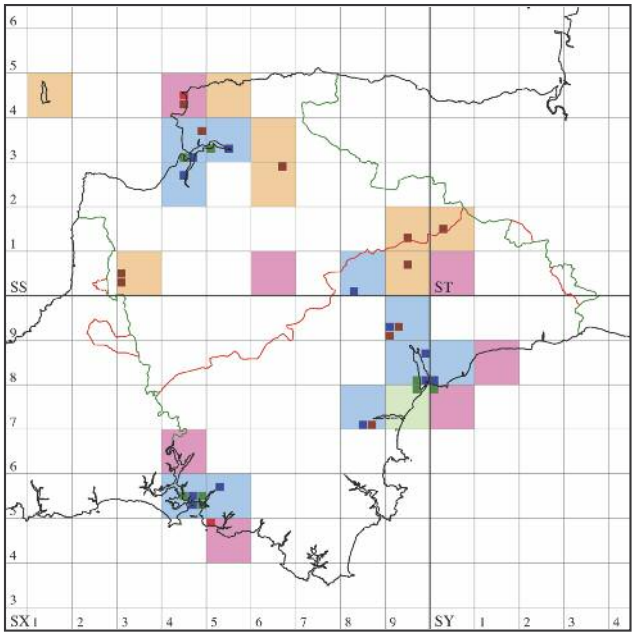
**VC3**

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

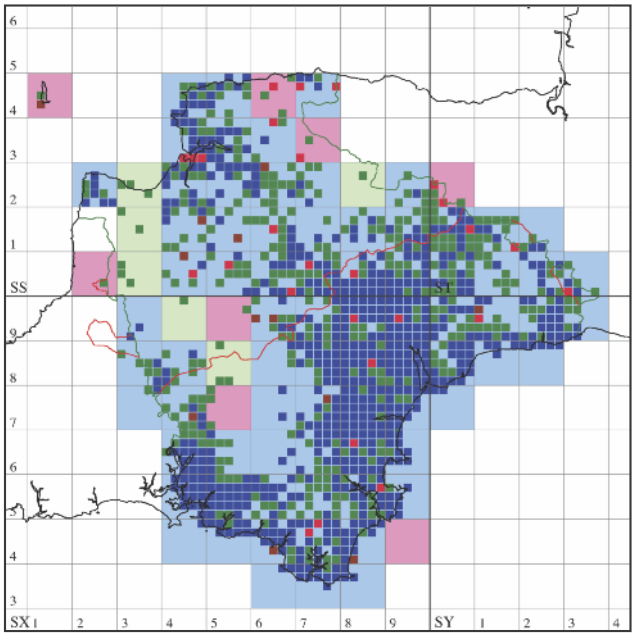
● ***Sisymbrium officinale*** (L.) Scop.
Hedge Mustard – **Map 272**
Common. Introduced, an archaeophyte. An arable weed of waste places and cultivated ground, especially in towns and villages. Common and widespread in the south and east but absent from Dartmoor and uncommon in the northwest.
Flora p.103, Atlas p.51 (853), 1987 onwards (822).

● ***Alliaria petiolata*** (M.Bieb.) Cavara & Grande
Garlic Mustard
Common. Native. Widespread on hedgebanks and in open woodland. Absent only from the higher ground on and around Dartmoor and Exmoor.
Flora p.104, Atlas p.51 (1306), 1987 onwards (1277).

**Map 271.** ***Sisymbrium orientale*** **(Eastern Rocket)**



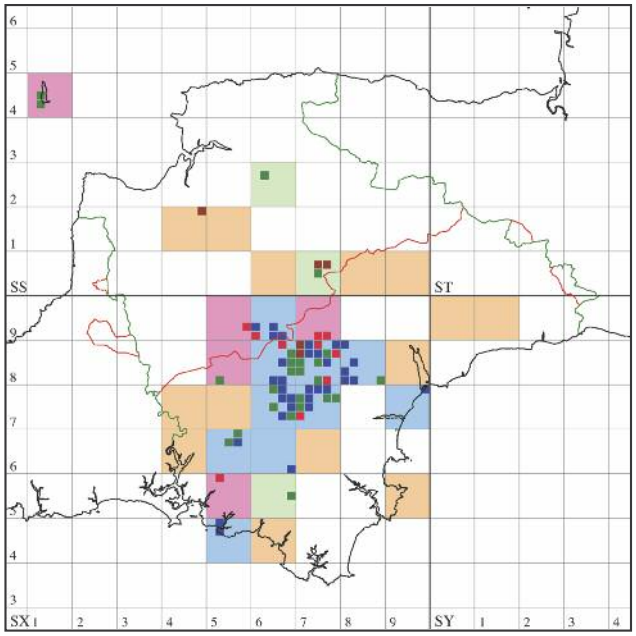

**Map 272.** ***Sisymbrium officinale*** **(Hedge Mustard)**



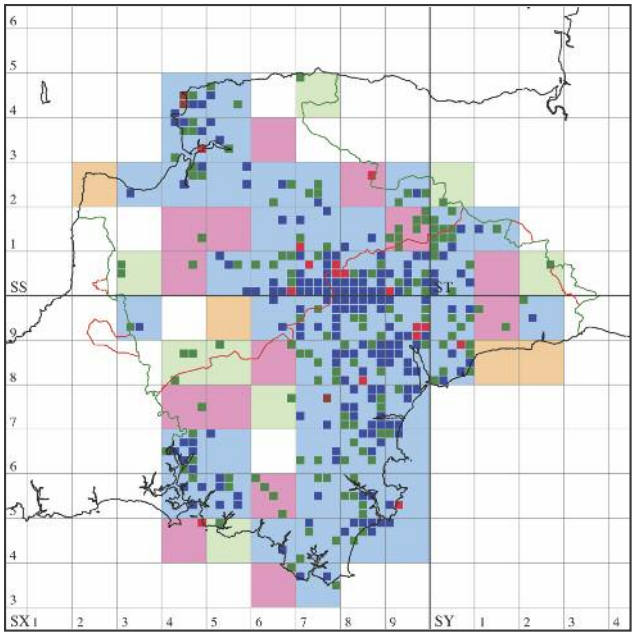

● ***Teesdalia nudicaulis*** (L.) W.T.Aiton
Shepherd's Cress – **Map 273** (overleaf)
Occasional. Native. Near Threatened on the British Red List. Locally common on and around Dartmoor in gravelly places on the granite and its surrounding aureole. It is particularly common on wall tops. Frequent on sand at Dawlish Warren. Rare elsewhere.
Flora p.117, Atlas p.58 (42), 1987 onwards (40).

● ***Thlaspi arvensis*** L.
Field Penny-cress – **Map 274** (overleaf)
Frequent. Introduced, an archaeophyte. A widespread arable weed. It is particularly common north and west of Exeter.
Flora p.117, Atlas p.59 (203), 1987 onwards (207).

Map 273. *Teesdalia nudicaulis* (Shepherd's Cress)

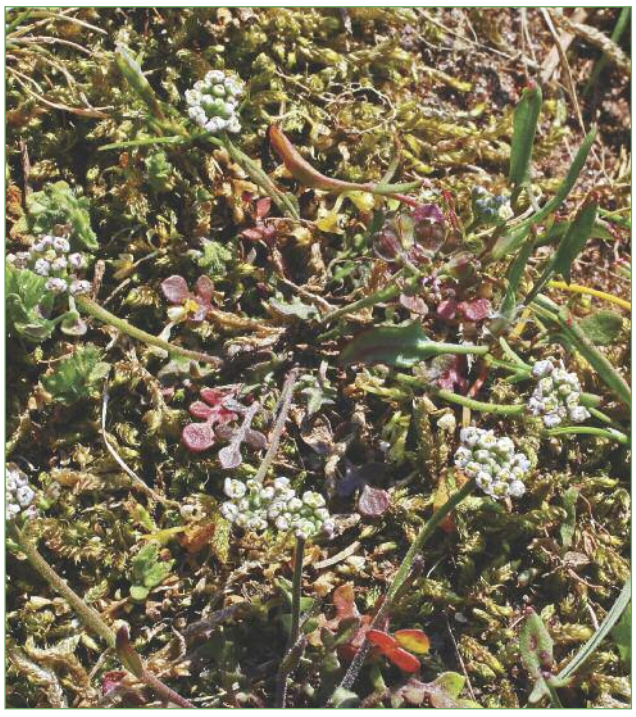



Map 274. *Thlaspi arvensis* (Field Penny-cress)




● ***Hesperis matronalis*** L.
Dame's-violet
Occasional. Introduced, a neophyte; native in Europe. A garden escape, naturalised occasionally in hedgerows.
Flora p.102, Atlas p.52 (48), 1987 onwards (40).

● ***Matthiola incana*** (L.) W.T.Aiton
Hoary Stock
Rare. Introduced, a neophyte; native in southern Europe. A garden escape on both coasts, first recorded in 1896 near Braunton Lighthouse (Flora). Once established it is often persistent and can still be found in most sites mentioned in the Flora.
Flora p.90, Atlas p.53 (11), 1987 onwards (14).



Shepherd's Cress *Teesdalia nudicaulis*, p.371

**VC3**

**SX44** Heybrook Bay, SX4948, 2006, *R.E.N.Smith & C.J.Smith*; SX498484, 2009, *J.Hepburn*.

**SX45** Tetrad SX4652, 1975, *M.F.Spooner* (Atlas). Tetrad SX4850, 1974, *J.S.Rees* (Atlas). Bovisand Fort, SX487507, 2008, *R.E.N.Smith & C.J.Smith*. Tetrad SX4852, 1975, *J.S.Rees* (Atlas).

**SX54** On cliff at Noss Mayo, SX5347, 1994, *R.W.Gould* (DA 1995).

SX63 Tetrad SX6638, 1977, *M.F.Spooner* (Atlas).

**SX64** Tetrad SX6046, 1981, *M.F.Spooner* (Atlas); several plants on cliff at Mothecombe, SX615476, 1994, *R.W.Gould* (DA 1995).

SX73 Prawle Point, 1899, *G.W.Moses* (**K**).

SX84 Beesands, 1956, *U.K.Duncan* (BSBI Atlas).

**SX85** By path to Quaywest, Roundham Head, SX8958, 2011, *R.E.N.Smith & C.J.Smith*.

SX97 Dawlish (Druce 1915). Hectad record, 1950, *H.Gilbert-Carter* (BSBI Atlas).

**SX98** Lympstone SX9983, 2003, *R.E.N.Smith & C.J.Smith*. South of Lympstone Station, SX989841, 1955, *M.Parkinson* (BSBI Atlas).

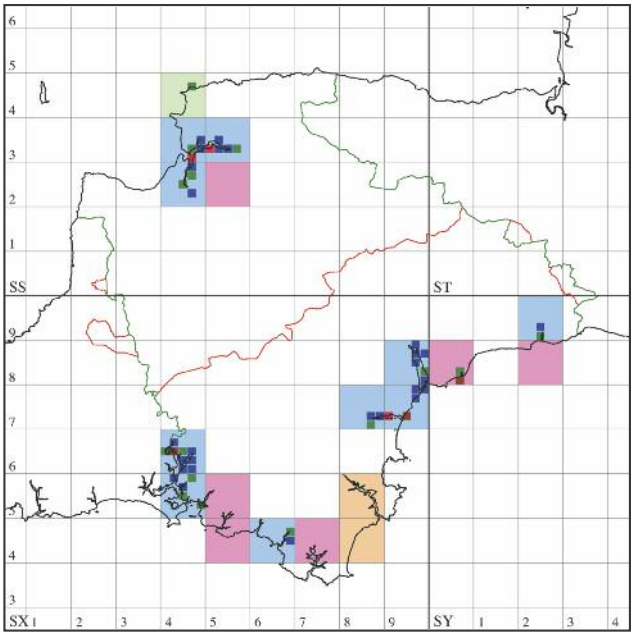
**SY08** Budleigh Salterton, naturalised on cliff, 1916, *M.Cobbe & G.C.Druce* (Druce 1918b); 1931, *G.C.Druce* (**OXF**); 1935, *A.Crawshaw*; SY057815, 1994, *L.M.Spalton*. Tetrad SY0680, 1964, *D.J.Allen* (Atlas); Budleigh Salterton SY0681, 2009, *R.E.N.Smith*. Tetrad SY0682, 1972, *M.Parkinson* (Atlas).

SY28 Beer, 1920, *E.S.Todd* (Flora); *R.Waterfield* (DA 1929); tetrad SY2288, 1968, *D.J.Allen* (Atlas); 1972, *W.H.Tucker*; Beer, SY230891, 1993 and 2006, *R.E.N.Smith & C.J.Smith*.

**VC4**

**SS43** An escape from the lighthouse garden, Braunton Burrows (Druce 1896, 1915); near the lighthouse, *F.A.Brokenshire* (Flora). Saunton Hotel, *F.R.Elliston Wright* (Flora); Saunton cliffs, SS445377, 1987, *W.H.Tucker*. Croyde Bay, SS436395, 1987, *W.H.Tucker*.

**Map 275. *Cochlearia anglica* (English Scurvygrass)**




**SS44** Woolacombe, 1920, *Mrs. Drummond* (Druce 1921, **OXF**); Woolacombe, SS454441, 2005, *N.F.Stewart*. Tetrad SS4444, 1978, *J.S.Rees* (Atlas); Mortehoe, *Mrs. Jennings* (Flora); SS4445, 1984, *H.Bowen*.
SX54 Tetrad SS5246, 1975, *J.S.Rees* (Atlas).

Also recorded from **VC3**: **SX95** and **VC4**: **SS14** (BSBI Atlas).

● ***Matthiola sinuata*** (L.) W.T.Aiton
Sea Stock
Very rare. Nationally Rare. Vulnerable on the British Red List. Native. On cliffs and dunes around Braunton where it was first recorded in 1797 (Polwhele 1797). A total count of nearly 5,000 plants at Braunton Burrows was made by Mary Breeds in 2005. The two tetrad records in SY08, South Devon, mapped in the Atlas are almost certainly errors for *M. incana*. The tetrad record from SX4874, may have been correct but was probably casual. Elsewhere in the British Isles it is known only from the South Wales coast and the Channel Islands.
Flora p.89, Atlas p.53 (10), 1987 onwards (8).

**VC4**
**SS43** Northam Burrows, SS4430, SS4431, 1971, 1987, *W.H.Tucker*; 2009, *R.M.H.Hodgson*. Instow Sands, SS4731, 1969, *A.J.C.Beddow* (Atlas); 1988, *M.Tulloh*; 1991, *W.H.Tucker*. Braunton Burrows , SS4432, SS4433, SS4434, SS4435, SS4436, SS4532, SS4533, SS4534, SS4632, by many observers to the present day. Roe Hill, SS4636, 2005, *M.Breeds*. Down End, Saunton, 1849, *G.Maw* (BSBI Atlas, **BM**, **BIRM**); Saunton, SS4437, 1950, *C.C.Townsend* (BSBI Atlas, **CGE**); 1991, *W.H.Tucker*; 2009, *R.M.H.Hodgson*; SS4537, 1963, *P.S.Putee* (BSBI Atlas); SS4637, 1933, *R.A.Graham* (BSBI Atlas, **BM**); tetrad SS4238, 1969, *A.P.S.Hamilton* (Atlas).

● ***Matthiola longipetala*** (Vent.) DC.
Night-scented Stock
Extinct. Introduced, casual; native in Greece, North Africa and beyond.
Flora as *M. oxyceras* DC p.762, 1987 onwards (0).

**VC3**
SX95 Galmpton, 1938, *G.T.Fraser* det *Kew* (DA 1939, **TOR**).

● ***Malcolmia maritima*** (L.) W.T.Aiton
Virginia Stock
Very rare. Introduced, a neophyte; native in Italy and the Balkans.
Flora as *Wilkia maritima* Scop. p.103, 1987 onwards (3).

**VC3**
**SX55** Disturbed ground at Boringdon Hill, Plymouth, SX530580, 2007, *P.D.Pullen*.
SX78 Wall top, Chagford, established for several years, SX701875, 1958, *R.J.Skerrett*.

**VC4**
**SS41** Waste ground at Langtree, SS4515, 1996, *W.H.Tucker*.
SS42 Bideford, 1931, *C.G.Druce* (Flora, **OXF**).

Also recorded from **VC3**: SX74, **VC4**: **SS53** (BSBI Atlas).

● ***Cochlearia anglica*** L.
English Scurvygrass – **Map 275**
Occasional. Native. Locally frequent on soft mud at the upper end of saltmarshes.
Flora p.101, Atlas p.58 (40), 1987 onwards (35).

● ***Cochlearia* × *hollandica*** Henrard
*C. anglica* × *C. officinalis*
Extinct. Native. Likely to occur where the parents meet (Stace 2010) but reported only from the Tamar/Tavy estuary. A plant in **TOR** collected by T.Stephenson in 1932 on the Torridge estuary in VC4 may be this hybrid (L.J.Margetts).
Flora as *C.* × *briggsii* Druce p.102, Atlas p.58 (0), 1987 onwards (0).

Sea Stock *Matthiola sinuata*

**VC3**
SX45 Plymouth, 1875, *T.R.A.Briggs* (Briggs 1875b).
SX46 Tavy estuary, Maristow, 1915, *G.C.Druce* (Druce 1916a).

● ***Cochlearia officinalis*** L.
Common Scurvygrass – **Map 276**
Frequent. Native. On the coast it is commonest in the north where it also spreads far inland along hedgebanks. Once planted by their homes as an anti-scorbutic by the sailors of Bideford and Torrington (Flora). This practice may account for at least some of the older records in the southeast and east of the county. It used to grow at Dawlish Warren together with *C. danica* (Atlas) though the maps do not indicate this. There appears to be some opportunity for confusion with *C. anglica* by the River Teign and the River Exe in the past and with *C. danica* along the coast in this area. The BSBI Atlas records for 1987 onwards are also troubling. The record sheets kept by the county recorder clearly indicate the presence of this species, together with *C. danica* and *C. anglica* where appropriate, but there are no localised coastal records made during or after that survey. More recently it has colonised the central reservation and verges of dual carriageways and other major routes, though, as yet, it is not common in these situations.
Flora p.100, Atlas p.58 (205), 1987 onwards (121).

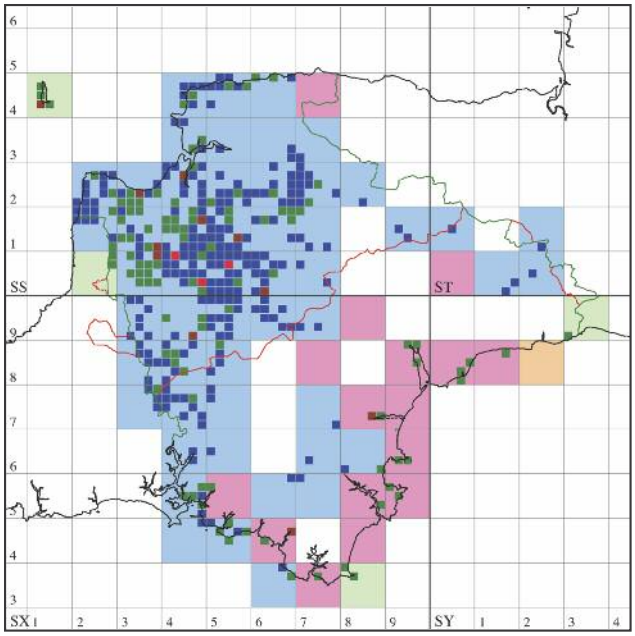
● ***Cochlearia danica* × *C. officinalis***
Very rare. Native. Found once in North Devon.
1987 onwards (1).

**VC4**
**SS32** Base of low cliffs with both parents, Buck's Mill, SS355236, 2003, *M.F.Godfrey* (Godfrey 2003).

● ***Cochlearia danica*** L.
Danish Scurvygrass – **Map 277**
Frequent. Native. Very common on the coast and now abundant on the central reservation of dual carriageways.

English Scurvygrass *Cochlearia anglica*, p.373

**Map 276. *Cochlearia officinalis* (Common Scurvygrass)**




It is almost continuous along the M5 and A38 between Exeter and Plymouth. It is more local on verges of lesser roads.
Flora p.101, Atlas p.57 (110), 1987 onwards (276).

● ***Iberis sempervirens*** L.
Perennial Candytuft
Very rare. Introduced, a neophyte; native in southern Europe. A garden escape.
1987 onwards (5).

**VC4**
**SS53** One plant on artificial riverbank, Muddlebridge, SS522324, 1995, *W.H.Tucker*.
**SS60** Escaping from gardens at Winkleigh, SS6308, 1998, *W.H.Tucker*.

Also recorded from **VC3**: **SX76**, **SX97** and **VC4**: **SS74** (BSBI Atlas).

● ***Iberis amara*** L.
Wild Candytuft
Extinct. Native in southeast England, introduced in Devon. A casual of fields and waste ground. It was recorded from both vice-counties during the early part of the 20th century but there are no recent records.
Flora p.117, Atlas p.59 (0), 1987 onwards (0).

**VC3**
SX55 Plymstock, 1915, *H.W.Smith* (Flora).
SX65 Ermington, 1915, *H.W.Smith* (Flora).
SX76 Dartington, 1941, *S.C.Patterson* (BSBI Atlas).
SX84 On the beach, Stokenham, 1939, *R.M.Milne* (Flora).
SX85 Tor Abbey lands, 1839, *anon*. (**BON**).
SX96 St. Marychurch, 1939, *Mrs. Jennings* (Flora).
SX99 Exeter, 1914, *R.H.Worth* (Flora).

**VC4**
SS32 Clovelly, 1953, *D.Hilton* (BSBI Atlas).